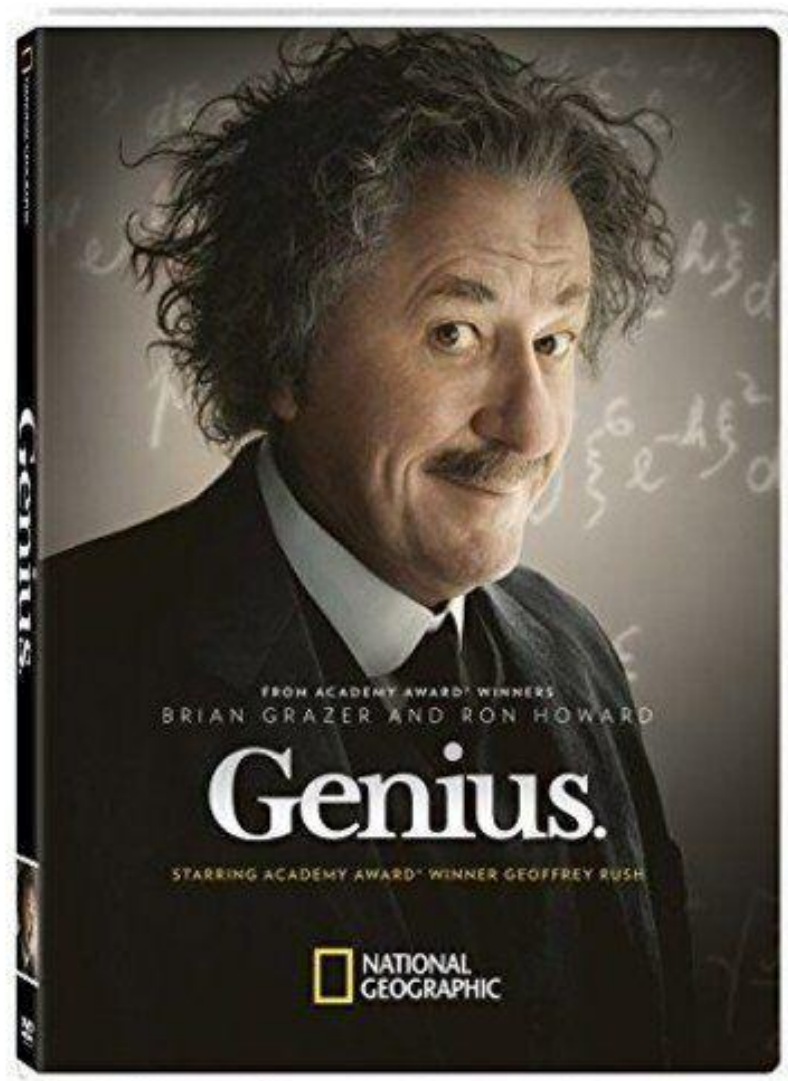


**THE GUIDE TO
A BIBLIOGRAPHICAL
DRAMA TELEVISION SERIES
*“Genius”***

**PART 1
(SEASON 1, EPISODES 1-5)
STUDENT’S BOOK**



МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
ПРИКАРПАТСЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ
ІМЕНІ ВАСИЛЯ СТЕФАНИКА
ФАКУЛЬТЕТ ІНОЗЕМНИХ МОВ
КАФЕДРА АНГЛІЙСЬКОЇ ФІЛОЛОГІЇ

**THE GUIDE TO
A BIBLIOGRAPHICAL
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(SEASON 1, EPISODES 1-5)
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Івано-Франківськ

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*Рекомендовано до друку
Вченою радою факультету іноземних мов
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Пропоноване видання знайомить з американським біографічним драматичним серіалом «Геній», який є прикладом живої англійської мови, багатой на фразеологічні звороти, ідіоми, колокації, а також наукову термінологію з фізики, математики та астрономії тощо.

Посібник містить розробки до перших 5 серій першого сезону серіалу. Авторами було розроблено вправи спрямовані на збагачення лексичного запасу слів, перевірку розуміння, розвиток навичок спілкування, слухання, письма та збагачення енциклопедичних знань про ключові історичні та політичні події кінця ХІХ - середини ХХ століття.

Матеріал посібника можна використовувати у вищих навчальних закладах для роботи зі студентами 3 та 4 курсів, які вивчають англійську як першу чи другу іноземну мову.

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МЕТОДИЧНІ РЕКОМЕНДАЦІЇ

Навчально-методичний посібник містить розробки до перших 5 серій першого сезону американського біографічного драматичного серіалу «Геній». Серіал висвітлює теми, які доповнюють основний ресурс задіяний на парах із англійської мови: *lifestyle, travelling, health, studying, people and society*.

Багато персонажів у серіалі говорять з різними акцентами та діалектами, що відображає їхнє різне походження. Це може бути складно для студентів, особливо тих, які звикли до стандартної англійської, змушуючи їх адаптуватися та розуміти різні мовні патерни. Студентам може знадобитися переглядати окремі сцени повторно або використовувати субтитри для повного розуміння діалогів, особливо тих, що наповнені технічними термінами та поясненнями певних фізичних процесів. В той же час, це змусить студентів більш зосереджено слухати та активізувати свої слухові навички, а також це допомагає навчитись працювати із різними акцентами та індивідуальними особливостями вимови, що стане студентам у нагоді в майбутній професії усного перекладача.

Серіал «Геній», присвячений життю видатного вченого Альберта Ейнштейна, не лише відкриває студентам світ наукових термінів та концепцій, але й занурює їх у багатство англійської мови. Це дозволяє:

1. Розширити лексичний запас: Посібник включає різноманітні вправи з розширення словникового запасу, що допомагають учням засвоїти наукову та культурну термінологію, а також розвивати мовні навички.

2. Розвивати навички спілкування: Занурюючись у контекст діалогів персонажів серіалу, студенти вчаться розуміти і використовувати ідіоматичні вирази, розмовні конструкції та культурні посилання.

3. Формувати культурну компетенцію: Завдяки серіалу студенти дізнаються більше про культурні та історичні аспекти англomовного світу, що є ключовим для повного розуміння мови та уникнення міжкультурних непорозумінь.

4. Інтегрувати практичні навички: Вправи з читання, письма, слухання та мовлення, а також літературні переклади дозволяють застосовувати мову в різних контекстах, розвиваючи практичні навички студентів.

Організація посібника

Посібник поділений на п'ять розділів, кожен з яких присвячений окремій серії першого сезону серіалу «Генія». Кожен розділ включає:

- цикл завдань **BEFORE WATCHING**, який містить вправи для підготовки студентів до змісту серії, ознайомлення з новою лексикою та фразеологічними конструкціями. Ці вправи націлені на активізацію пасивного словникового запасу та використання дедуктивного та індуктивного методів. Ці завдання дають студентам необхідний словниковий мінімум для подальшої роботи із серією та виконання наступних завдань. Студентам необхідно запропонувати пояснення слова чи словосполучення та перекласти їх на українську мову. Також у цьому циклі завдань запропоновано ряд вправ із заповнення пропусків, які націлені на сприяння запам'ятовування нововведеної лексики та підготовку до майбутнього контенту через ознайомлення із лінгвістичними інструментами та збагачення словникового запасу загалом. Ці вправи узгоджуються з комплексними стратегіями вивчення мови, поєднуючи словниковий запас, контекст і активне використання для зміцнення лінгвістичних навичок студентів. Рекомендовано надати студентам час для самостійного виконання вправи, за потреби радимо використовувати словник;

- цикл завдань **WHILE WATCHING** складається із вправ, що передбачають визначення персонажу та сцени для кожної з наведених реплік, роботу зі спеціальними термінами, які зустрічаються у кожній серії та інші завдання, які допомагають студентам уважно стежити за персонажами, їхніми діалогами, діями та взаємодією. Ці вправи сприяють розвитку аудіювання та розуміння контексту, а також дозволяють аналізувати мовні аспекти у реальному часі. Завдання на розпізнавання персонажу та окремих сцен із кожної серії допомагають студентам покращувати навички аудіювання, відстежувати діалоги та розуміти сюжет, а також глибше зануритися в діалоги, інтегруючи лексичний запас, граматику та мовні структури. Вправи зі термінами допоможуть

студентам зв'язати мовні терміни з наративом, розуміючи їх у контексті серіалу, і таким чином мимовільно запам'ятовувати складну термінологічну лексику. Рекомендовано виконувати ці вправи під час перегляду серії, за необхідності роблячи паузи під час перегляду чи переглядаючи окремі частини повторно;

• цикл завдань *AFTER WATCHING* складається із завдань, спрямованих на закріплення матеріалу, зокрема пошукові завдання, націлені на детальніше ознайомлення із культурними та історичними аспектами, пов'язаними із контентом епізоду, вправи, що сприяють поглибленому аналізу стилістичних засобів, таких як метафори, порівняння, алегорії та інші та розуміння їхнього вплив на мову та зміст епізоду, запитання для перевірки розуміння контенту кожного епізоду, аналітичні завдання, які передбачають обговорення певних цитат із кожного епізоду та дискусійних запитань по змісту серіалу, а також письмові завдання, зокрема художній переклад окремих уривків відповідних серій та письмовий синопсис кожної переглянутої серії. Пошукові завдання рекомендовано для самостійної роботи із подальши представленням результатів дослідження на парі. Аналітичні та дискусійні завдання рекомендовано виконувати як в парах чи малих групах, так із усіма студентами. Завдання на переклад вказаних уривків та письмове завдання рекомендовано використовувати для самостійної роботи студентів в якості домашнього завдання.

Цільова аудиторія

Посібник призначений для студентів 3-4 курсів, які вивчають англійську мову як першу чи другу іноземну. Його матеріали можуть бути використані в університетах для інтегрованого навчання мовних, культурних та наукових аспектів.

Ці методичні рекомендації допоможуть викладачам ефективно використовувати посібник у своїй роботі, забезпечуючи всебічне навчання студентів.

PREFACE

In an era where technological advancements and media proliferation have transformed the traditional learning landscape, opportunities to grasp the intricacies of a new language have become abundant and multifaceted. One such method, the focus of this recommendation guide, lies within the confines of a vastly popular cultural medium – film and television series. This manual aims at elucidating the immense benefits of this unique approach to language learning, with a special emphasis on the English language through the lens of the acclaimed TV series, *Genius*, Season 1.

Laying the foundation of this pedagogical proposition, it is first crucial to understand the weight and importance of the English language in today's interconnected global society. A lingua franca for many, English has solidified its position as the de facto language of diplomacy, business, technology, science, entertainment, and much more. It is an indispensable asset that transcends borders, fostering communication, understanding, and mutual respect. Thus, proficiency in English not only aids in personal development and enhances employability, but it also facilitates the participation in the global conversation, thus underlining its vital role in the age of globalization.

The unconventional yet effective approach of using film or TV series to learn English combines the best of pedagogy and entertainment. This methodology, known as 'Edutainment,' merges education and entertainment in a harmonious blend that captivates learners' attention, thus increasing their receptiveness to the content. This immersive method reduces the monotony of textbook learning and directly exposes learners to the cultural and contextual aspects of the English language, creating a comprehensive learning environment.

TV series like *Genius*, specifically its first season, offers an excellent platform for English language learning. The complex dialogues, the cultural references, and the accurate historical context provide an enriching source of English vocabulary,

idioms, phrases, and speech patterns. The nuanced narrative also ensures learners are consistently engaged, making the learning process enjoyable and memorable.

Moreover, visual learning aids comprehension by stimulating the human brain's propensity for imagery, enhancing memory retention, and understanding. Learners can observe the context in which words or phrases are used, see the characters' facial expressions and body language, and hear the correct pronunciation and intonation. Subtitles further assist in learning spellings and linking sounds to words. This multisensory experience creates an interactive learning environment that cultivates critical thinking and develops language fluency.

Furthermore, the rich narrative structure of series like *Genius* encapsulates the diverse socio-cultural elements of the English language, offering a panoramic view of language use. Characters from different backgrounds provide an array of accents and dialects, presenting learners with a comprehensive understanding of the language's diversity. Such exposure to various accents and dialects equips learners to better comprehend real-world English conversations, fostering their confidence and communication skills.

Cultural competence is an integral part of language learning, and series-based learning helps build this aspect effectively. It goes beyond the syntax and semantics of English, allowing learners to grasp the cultural nuances, societal norms, and historical contexts inherent in the language. Understanding these cultural elements aids in avoiding miscommunication and misinterpretations that could arise from cultural ignorance.

In essence, learning English through series like *Genius* is a holistic learning approach. It leverages the engaging nature of visual media to create a dynamic and interactive learning environment. This methodology addresses the limitations of traditional language learning methods by focusing on practical, contextual, and cultural aspects of the English language. As such, it imbues learners with a well-rounded understanding and competence in English, equipping them with the tools to navigate the global arena effectively.

In this guide, we will delve deeper into the practical ways to optimize this learning approach, using *Genius*, Season 1 as a case study. Through methodological

recommendations, the guide aims to maximize your learning experience, fostering not only language proficiency but also a profound appreciation of the art of storytelling and the immersive world of TV series.

Learning English, or any language, is a journey. And in this journey, films and TV series serve as an entertaining and insightful companion. They transform the process from a mere academic exercise to a thrilling adventure, blurring the lines between learning and entertainment. It is my sincere hope that this guide will illuminate this path, making your language learning journey as enjoyable as it is enriching.

Thus, the fusion of learning and entertainment amplifies the efficacy of language acquisition. TV series, specifically *Genius*, can act as an unconventional yet effective English tutor, cultivating not only language skills but also cultural competence. I invite you to delve into this enriching experience, exploring the realms of language learning through the magic of storytelling.

This manual is a guide to an American drama television series *Genius* which is an American anthology period drama television series developed by Noah Pink and Kenneth Biller which premiered on National Geographic. The first season, which aired between April and June 2017, followed the life of Albert Einstein, from his early years, through his time as a patent clerk, and into his later years as a physicist who developed the theory of relativity; the season is based on the 2007 book “*Einstein: His Life and Universe*” by Walter Isaacson.

There are 5 assignments in the manual, each presenting one from the first five episodes of Season 1. Each assignment consists of 3 parts: before watching, while watching, and after watching. Before watching part introduces students to the active vocabulary and comprises different tasks on practising it. While watching part checks students’ comprehension of the video and gives the opportunity to specifically practise their listening skills. In after watching part students will find a variety of tasks on grammar, writing, reading, and literary translation. There are also discussion and role-play activities that can help students boost their critical thinking skills and express themselves.

Series overview

Genius Season 1, produced by National Geographic, is an extraordinary journey into the life and work of Albert Einstein. Launched in 2017, this season follows the remarkable path of arguably the most influential physicist of the 20th century.

The series begins with Einstein's early years as a patent clerk in Switzerland, a period during which he first developed the theory of relativity. As we delve into Einstein's life, the series also explores his personal life, providing a comprehensive view of the man behind the scientific brilliance. We learn about Einstein's family, his relationships, and his struggles against the socio-political turmoil in Europe, particularly during the rise of Nazi power.

The season uses a non-linear narrative, alternating between scenes of an elder Einstein (played by Geoffrey Rush) in the United States and flashbacks of his younger years (Johnny Flynn portraying young Einstein). This effective storytelling method enriches the narrative, shedding light on how past experiences shaped Einstein's later life.

Throughout Genius Season 1, the viewers get to witness the genesis of Einstein's groundbreaking ideas, including the theory of relativity and the famous equation $E=mc^2$. The season doesn't shy away from the complexities of his theories but instead, it attempts to explain them in an approachable manner, allowing audiences to appreciate the depth of Einstein's intellect.

Equally significant are the series' depictions of Einstein's complex relationships, his romantic endeavors, and his often tumultuous personal life. The series also sheds light on Einstein's pacifist beliefs, his struggles with the rise of fascism, and his eventual emigration to the United States.

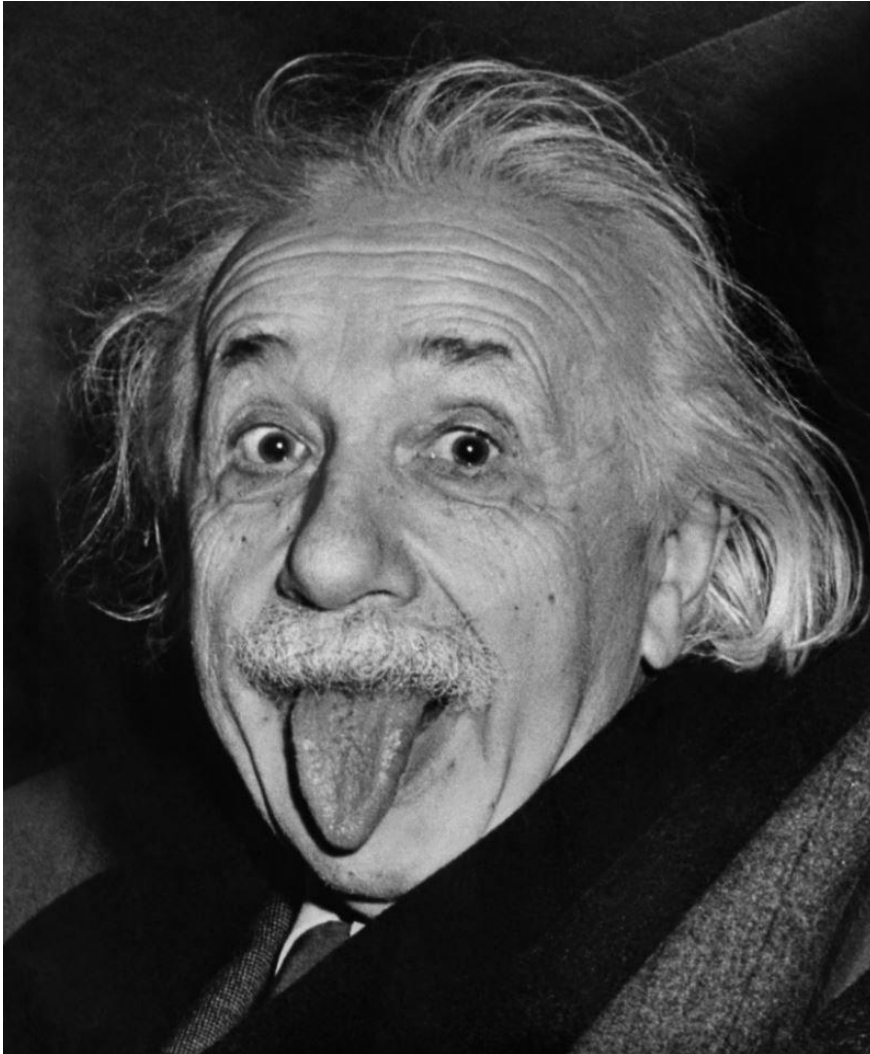
Thus, Genius Season 1 is an inspiring exploration of both the scientific and personal life of Albert Einstein, illuminating not only his brilliant mind but also his human vulnerabilities, his passion, and his unyielding dedication to understanding the mysteries of the universe.

GENIUS

EPISODE 1

BEFORE WATCHING

1. Who is this person in the photo?



2. We often regard Einstein purely as a genius scientist. However, like all individuals, he led a multifaceted life. Could you answer the following questions about certain aspects of his life?

1. What do you know about Einstein's personal life, his upbringing, and his personal values? How might these aspects have influenced his scientific career?

2. What are some of Albert Einstein's most notable contributions to the field of science, particularly Physics? How have these theories changed our understanding of the world?

3. Einstein was awarded the Nobel Prize in Physics in 1921, but it was not for his theory of relativity. For which scientific discovery did he receive this prestigious award, and why do you think this discovery was so significant?

4. Einstein had a deep interest in philosophy and often integrated it with his scientific theories. What do you know about his philosophical perspectives, and how do you think they might have influenced his approach to science?

5. Einstein's contributions extend beyond the realm of science. How has his legacy impacted other aspects of society, such as culture, education, and our collective understanding of genius?

3. Translate the following words and be ready to reproduce them in their context:

to convince	to flatter
insane	to overreact
deceptively	loud-mouthed
velocity	to reject [rɪ'dʒekt]
moot	a reject ['ri:.dʒekt]
essential	esteemed
regurgitation	hereby
impudent	restrain (n) / to restrain (v)
feverish	garish
to faint	skirmishes
eternity	a forefather
to grieve	a compatriot
to despise	frivolous
exceptionalism	disobedient
scintillating	perennial
	truant

unrepentant

flouter

to chastise sb

heretical

impious

buffoon

treatise

hearsay

the humanities

definable

hedonistic

acceleration

derivative

equitably

relation to

deity

To constitute

to renounce

infantile

measles

a majority

defiant

to endure

simplicity

to induce

heritage

reluctantly

to scintillate

to nurture

hallowed

empirical

abstruse

respectively

to assassinate

fraud

courtship

indulgent

conniving

perception

a fraction

4. Fill in the blanks with the appropriate words from the list of vocabulary above. Some modifications of the word form may be necessary to fit the sentence structure.

- 1) The scientist's work on the new vaccine was _____, leading to a breakthrough in medical science that was celebrated worldwide.
- 2) His _____ lifestyle led him away from the lab and into a world of luxury, where his research became a secondary concern.
- 3) The documentary highlighted the _____ growth of technology in the 21st century, emphasizing its effects on human interaction.
- 4) The artist's use of _____ colors in her paintings was intended to evoke strong emotional reactions from viewers.
- 5) The philosopher's _____ on ethics has become a fundamental text for students studying the humanities.
- 6) Despite the _____ evidence supporting climate change, some skeptics continue to question its validity.
- 7) Her _____ in the face of adversity inspired her peers to pursue their goals with equal determination.
- 8) The novel's protagonist was a(n) _____ figure, whose rebellion against societal norms sparked a revolution.
- 9) He was often criticized for being _____, speaking out of turn and disrespecting his elders.
- 10) After years of _____, the couple finally got engaged, much to the delight of their families.
- 11) The CEO's decision to _____ his citizenship shocked the business world.

5. Match the beginning with the end of the phrase. Translate the phrases and be ready to reproduce them in their context:

to make	beam
---------	------

an urgent	for something
to take	the equation
a light	a step back
big demand	message
to solve	a proposition
to have	one's condolences
to offer	a rash
to pass	an exception
to pin up	citizenship
to cloud	application
to make	one's regards
to bend	the entrance exams
to audit	force
to earn	visa
To take	an inquiry
to gain	a threat
to renounce	hair
to approve	momentum
to send	charge of sth
to apply	classes
to obtain	one's vision
to pose	the rules
to conduct	entry to
to grant	a degree

6.Fill in the blanks with the appropriate phrases from the list above. Some phrases may need to be modified to fit the tense or grammatical structure of the story correctly:

Maria had always dreamed of studying abroad. After months of preparation, she was finally ready to _____ for her dream university. The process was not

easy, and there was a _____ to secure a spot in the prestigious institution. However, Maria was determined. She studied hard to _____ and worked diligently to _____ in her favorite subjects. Her efforts paid off when she received _____ from the university's admissions office.

Excited to embark on this new chapter, Maria knew she had to _____. Moving to another country meant she would _____ of her home country and _____ in her new home.

Upon arrival, Maria quickly realized that adapting to a new culture was like learning to survive in a completely unfamiliar environment. Initially, the differences seemed to _____, making it hard to adjust. However, she remembered to _____ in her approach to new experiences, even if it meant she had to _____ occasionally.

One of her first challenges was to _____. Maria was interested in several subjects that were not part of her major, so she decided to enrol in the modern art course to broaden her mind. Academically, she thrived, and it wasn't long before she managed to achieve huge success in her field of study.

Outside of academics, Maria took _____ of a local community project. Her enthusiasm and hard work helped the project _____, attracting more volunteers and resources. Despite facing occasional obstacles, Maria never allowed them to discourage her. Instead, she saw each challenge as an opportunity to learn and grow.

Maria's journey was not without its hurdles. There was a time when she had to stay in bed for a whole month due to an unexpected health issue when she developed _____ after a hiking trip. Nonetheless, her positive attitude and resilience saw her through.

As Maria's study abroad experience came to an end, she reflected on her journey. She had not only achieved her academic goals but had also grown personally. Before departing, Maria made sure to express gratitude all the friends and mentors she had met along the way. She knew that the relationships and memories forged during this time would last a lifetime.

7. Match the following phrases with their meanings. Be ready to reproduce them in their context:

1. to delve into	a) to accept that you are in charge of something or that you have caused something to happen.
2. to pick me up	b) to watch what is happening and be careful
3. to move in with sb	c) to allow someone to enter a place
4. to forge ahead	d) an informal way to tell someone to go away
5. to grasp the idea of	e) to search, especially as if by digging, in order to find a thing or information
6. to look out for	f) to choose one person or thing from a group for special attention
7. to take responsibility for	g) to cause doubts about something
8. to bar from	h) a rude way to tell someone to leave or to stop annoying you
9. to let sb in	i) to accept an offer or invitation from someone
10. to turn out	j) to discover something by chance, or to meet someone by chance
11. to be jealous of	k) to break a rule or law
12. to offend against	l) to understand something, especially something difficult
13. to take sb in	m) feeling upset or angry because someone you love seems interested in another person
14. to get the door	n) to provide a place for someone to live or stay
15. to spill sth out	o) to reach someone by moving faster than them
16. to buzz off	p) to do less of something or use something in smaller amounts
17. to show sb in	q) to improve someone's mood or to invigorate them.
18. to piss off	r) to start living with someone, especially in the same house.
19. to take sb up on	
20. to catch up to	
21. to cut back	
22. to stumble upon	
23. to call sth into question	
24. to single out	

	<p>s) to make progress quickly or with determination.</p> <p>t) to prevent or prohibit someone from doing something or going somewhere.</p> <p>u) to happen in a particular way or to have a particular result, especially an unexpected one.</p> <p>v) to go to the door because someone has knocked or rung the doorbell.</p> <p>w) to cause something to flow or fall out of a container.</p> <p>x) to lead someone to a place where they can sit or stay, especially inside a building</p>
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8.Fill in the blanks with the appropriate phrasal verb from the list above. Make sure to modify the form of the verb if necessary to ensure correct tense and agreement with the subject:

1. After years of superficial knowledge, she decided to _____ the subject, uncovering layers of complexity she hadn't anticipated.

2. Feeling a bit down after the exam, I really needed something to _____ before heading to the next challenge.

3. They made the big decision to _____ together, marking a new chapter in their relationship.

4. Despite numerous setbacks in the project, the team decided to _____, focusing on their ultimate goals.

5. It took him a while, but he finally began to _____ quantum physics after many hours of study and discussion.

6. In a big city, it's important to _____ each other, especially when navigating through crowded and unfamiliar areas.

7. Once the mistake was identified, she didn't hesitate _____ and worked to rectify the error immediately.

8. The club had strict rules, and unfortunately, he was _____ entering because he didn't meet the dress code.

9. During the storm, we decided to _____ the stranded traveler, offering a warm meal and a place to stay.

10. The movie _____ to be much better than expected, with critics praising its innovative storyline and dynamic characters.

9. Match the following collocations with their meanings. Translate them and be ready to reproduce them in their context:

an unorthodox idea	A natural ability or talent for something
business in bankrupt	Continuous, unending snoring
an aptitude for something	An unusual or unconventional concept
incessant snoring	A situation where a business is legally declared unable to pay its debts
medically unfit to do sth	The range, scope, or degree of something
nervous breakdown	A group holding marginal or extreme positions in society
the extent of something	Deemed by health professionals as unable to perform a specific action or task due to health reasons
a fringe group	A period of mental distress and inability to function in everyday life, often due to stress or depression
scintillating wit	A person deeply committed to Christian faith and practices
a permanent option	An overly bright or showy display that is often tasteless
a devout Christian	Exceptionally clever and amusing conversational humor

a garish spectacle	A solution or choice intended to last indefinitely.
left-wing radicals	A set of political beliefs or principles.
political creed	Associations with specific political parties or movements
political affiliations	Individuals or groups advocating for extreme changes in society, typically supporting socialist or progressive policies
an artificial formula / formulae	An essay or report written on a particular subject
an arbitrary definition	A theory that is difficult to understand because of its complexity
empirical observation	A child who regularly disobeys authority figures
an abstruse theory	A disease primarily affecting infants and young children
a paper on sth	Man-made or synthetic equations or recipes, often used in scientific or mathematical contexts
a disobedient son	Information gained by means of the senses, particularly by observation and documentation of patterns and behavior through experimentation
perennial truant	A definition based on random choice or personal whim, rather than any reason or system
an infantile disease	Someone, typically a student, who habitually stays away from school without permission

10. Rewrite the sentence using one of the collocations from the list, altering the sentence structure if necessary to accommodate the collocation. Two examples are provided for you.

Examples:

Original Sentence: “The company can’t pay its debts anymore.” *Transformation Task:* Rewrite using “business is bankrupt.”

Original Sentence: “He’s always joking cleverly to lighten the mood.” *Transformation Task:* Rewrite using “scintillating wit.”

Sentences for Transformation:

“He believes very strongly in his Christian faith and follows its teachings every day.”

“The group advocating for extreme environmental changes is gaining attention.”

“She has a natural ability to solve mathematical problems quickly.!”

“Their theory about black holes is difficult for most people to understand.”

“The costume for the parade was so bright and colorful that it almost hurt to look at it.”

“He’s not allowed to run the marathon because his doctor says his health isn’t good enough.”

“She’s thinking deeply about starting her own online business.”

11. Translate the following words and word combinations and be ready to reproduce them in their context:

to disapprove of this idea

an unorthodox idea

contemplate the idea of something

business is bankrupt

an aptitude for sth

to refine sth for sth else

incessant snoring

to feel feverish

to deem

medically unfit to do sth
nervous breakdown
the extent of sth
to grasp a language
to bring misery and pain
to regret the circumstances
a fringe group
scintillating wit
a permanent option
have accomplices.
kowtow to bullies
a devout Christian
a handful of supporters
the common sense of
to declare a day of mourning
a garish spectacle
left-wing radicals
quite a turnout for sb
an artificial formula/artificial formulae
an arbitrary definition
publicly-seeking fabrications
empirical observation
an abstruse theory
to be devoid of sth
a paper on sth
to have cramps
a gnat
a disobedient son
perennial truant
unrepentant flouter of authority
to consider an idea

outside our grasp of understanding

to have a definable answer

to hold sb in highest esteem

an infantile disease

to evoke complex emotions

to have sb do sth

induced voltage

to gain capital

human perception

Deputy Consul General

political creed

loyalty

at the request of sb

political affiliation

to sb's satisfaction

12. Fill in the blanks with the appropriate phrasal verb from the list above. Make sure to modify the form of the verb if necessary to ensure correct tense and agreement with the subject:

1. The scientist's _____ on quantum mechanics challenged conventional wisdom, inviting both skepticism and admiration.

2. Due to its innovative yet _____, the startup struggled to find investors who did not _____.

3. After years of operation, the local bookstore declared that the _____, forcing it to close its doors permanently.

4. Despite his _____ in six languages, he found the local dialect _____, requiring more time to _____.

5. Her scintillating wit during the performance was so intense that it managed _____ among the audience, showcasing her _____.

6. The community _____ to honor the victims.

7. Facing a _____, he could no longer ignore the symptoms and admitted he _____.

8. When the _____ took the stage, their _____ was undeniable, supported by only _____, but enjoying _____ for such _____ political _____.

9. His research paper, based on _____ rather than _____, provided a fresh perspective on the debated issue.

10. The documentary aimed at highlighting the implications of the crisis, despite the government's attempt to _____ the severity of the situation.

11. In the fantasy novel, the characters _____ of helping the villagers _____ all the basic conveniences crucial for their survival.

13. Match the idioms and idiomatic expressions to their meanings? Translate them into Ukrainian and be ready to reproduce them in their context.

rote memorization	that is logical or understandable
it's (not) sb's concern	to succeed easily and excellently
chin up	others have heard good things about you before meeting you
feel like a blink of an eye	a very short period of time
for God's sake	to destroy or ruin a business through poor decisions or management
on the grounds that	can't stand or tolerate thinking about a particular action or event
that makes sense	to investigate or research in detail
pass sth with flying colors	looking at something based on scientific principles
your reputation precedes you	for the reason that
from a scientific perspective	an expression used to emphasize something or

	show frustration
on what offense?	to have no knowledge or experience with something
blind regurgitation	it is (or isn't) someone's business or worry
delve deeper into	to keep up one's spirits; stay positive
plunder a business into the ground	memorizing information through repetition without necessarily understanding the meaning
don't know the first thing about	asking for the reason or cause of something
Can't bear the thought of doing sth	mindlessly repeating information without understanding

14. Make up 15 sentences with the words, phrases and word combinations from Exercises 3-7.

WHILE WATCHING

1. Identify the speaker and the scene of each of the following lines:

A. Monogamy is not natural. It is a construct of religious authority.

And a foolish faith in authority, my dear Betty, is the worst enemy of truth.

B. I want you to listen to me very carefully, son. Rebellion will get you nowhere in life. You step on enough toes, and I promise you, one day you will trip.

C. Really, Fritz? You're proud of your military service? You may have changed your religion, but don't think for a second you can change your heritage

D. Gentlemen, there is a new war festering. A war against reason, against clarity, against this very institution. Germany and German physics are under threat.

E. Don't let those academic fools in Zurich change you, Albert. Their knowledge is their weakness, while your imagination is your strength.

2. While watching check the meaning of the following terms and word combinations. Write the translation next to them:

trigonometry

to solve the equation

differential equation

laws of sines and cosines

C-squared

equals

subtract

multiplied by

area of a triangle

the natural log of a constant

the natural log of one plus V-squared

gravity

matter

derivative of logarithmic functions

hydrogen.

carbon

lithium

nitrogen

sound waves

a medium

all-encompassing substance

to pervade the universe

heat conduction

a mathematical equation

molecule

galaxy

Newton's second law of motion

acceleration is the derivative of velocity

induced voltage

magnetic field

velocity of conductor

electromagnetic radiation

Faraday's Law

Maxwell-Faraday equation

3. While watching the episode identify the main characters and make some notes about them (name, appearance, the problems they face)

AFTER WATCHING

1. Study the following Mind Map Framework of the proper names mentioned in this episode. Find some extra information about these prominent people and institutions.

Mind Map Framework:

1. Educational Institutions

- Zurich Polytechnic
 - Mileva Maric (Albert Einstein's first wife studied here)
 - Heinrich Weber (Einstein's professor)
- Princeton
- Oxford
- University of Heidelberg
 - Professor Lenard (Worked and researched here)
- California Institute of Technology

2. Scientists & Philosophers

- Chemistry:
 - Fritz Haber
 - James Clark Maxwell
 - Faraday
- Physics:
 - Professor Lenard
 - Sir Isaac Newton
 - Kepler
- Philosophy:
 - Baruch Spinoza
 - Descartes
 - Nietzsche
 - Confucius
- Other:

- Aristotle (philosopher and scientist)
- Euclid (mathematics)
- Empedocles (philosopher)

3. Political & Historical Context

- Germany & Weimar Republic
 - Adolf Hitler
 - National Socialist Party
 - Walther Rathenau
 - Assassinated by Organisation Consul
- Controversial Texts & Movements:
 - The Protocols of the Elders of Zion
 - Zionist (Opposed the misleading representation in the Protocols)
 - a Bolshevik Jew (sometimes wrongly associated with this text)
- U.S. Figures & Entities:
 - J. Edgar Hoover
 - United States Bureau of Investigation
 - Raymond H. Geist (U.S. diplomat in Germany during the rise of Nazis)

4. Geographical Context

- Germany
 - Munich (early activities of Hitler)
- Milan
- Switzerland
 - Zurich Polytechnic
- Bodies of Water:
 - Baltic Sea

5. Arts & Culture

- Music & Composers:
 - Erik Satie

- Wagnerian (related to Richard Wagner's music & philosophy)
- Mythology & Ancient Deities:
 - Aphrodite

2. Comment on the use of the figures of speech in the following examples:

1. *"You step on enough toes, and I promise you, one day you will trip."*
2. *"Maybe to you two years feels like the blink of an eye, but to me, it's an eternity."*
3. *"What is... time? A deceptively simple question, yet it is the key to understanding relativity. It is also the reason my hair is going gray."*
4. *"Abstruse theories devoid of reality have no place in our field. If we do not fight against them, I promise you, the foreigner will spread through these hallowed halls like a virus. And before we have time to react, German physics will be no more."*

3. Comprehension check. Be ready to answer the following questions:

1. *Describe the contrast in Einstein's life between his younger years and his later years as portrayed in this episode. How does the episode depict these two stages of his life?*
2. *What challenges does Einstein face in his academic journey during this episode? Name at least two significant events or confrontations.*
3. *How does the episode address Einstein's relationships, particularly his romantic ones? Name a significant romantic relationship highlighted in this episode and describe its importance.*
4. *What are some of the political tensions or societal issues depicted in this episode, and how do they influence Einstein's life and decisions?*
5. *How is Einstein's unique perspective on science, particularly his views on time, introduced in this episode?*
6. *Describe Einstein's relationship with his family, particularly his parents. How do they react to his choices in both his personal and professional life?*
7. *Who are some of the significant academic or scientific figures Einstein interacts with in this episode, and what are their roles or influences in his life?*

8. *The episode uses various stylistic elements, like flashbacks, to tell Einstein's story. Describe a memorable scene or sequence from the episode and explain its significance in Einstein's narrative.*

4. Prepare a literary translation of these passages from the series rendering the intended tone of the author.

1. - Herr Einstein, wake up!

- I wasn't sleeping, sir. I was thinking.

- Oh, really? About what, exactly?

- The secrets of the cosmos, I suppose.

- I suggest you think about trigonometry instead. With your eyes open. And sit up! Laws of Sines and Cosines.

- $C^2 = A^2 + B^2 - 2AB \cos C$. Area of a triangle. $\text{Area} = \frac{1}{2} C \sin A \sin B$.

- What is the...differential equation?

- Herr Einstein, are you still too busy contemplating the secrets of the cosmos to solve this equation?

- Oh, no, sir. I-I've already solved it.

- Leave. Now.

- On what offense?

- Your mere presence spoils the respect of the class for me!

- That is not an objective reason!

- Out!

- The natural log of a constant multiplied by X equals the natural log of one plus V^2 . And since $V = \frac{Y}{X}$, that gives us the final function: $X^2 + Y^2 - CX^3 = 0$. And speaking truthfully, sir, your mere presence spoils my respect for the future of Prussian mathematics.

- Out.

2. - Look around you. What do you see?

- I see my impudent son.

- Yes, but what am I made of? Matter. And what keeps my feet on the ground? Gravity.

- Oh, Albert, I don't have time for... This is not...

- Time, yes, that, too! And light and magnetism. These invisible forces that nobody fully understands. Where do they come from? What are they made of? And why do they act as they do? I want to be the one who solves those mysteries.”

3. - All right, let us all open our eyes...and return to Germany. Here is our traveling light beam. Now, I will ask you again. How can something... light...travel through nothing... space?

- It cannot, Herr Professor.

- Cannot. Good. Therefore, if light is only a wave, then...

- Space is not empty?

- Exactly. So just as sound waves travel through air, light waves must travel through some sort of medium in space. Scientists called it the ether, an invisible but all-encompassing substance pervading the universe. I believed in it when I was your age. Trust me. I knew everything. But as it turns out, I was wrong.”

4. - Herr Einstein?

- I am Professor...

- Weber. Heinrich Weber. Chair of the physics department, I know. I... I read your paper on heat conduction.

- It seems you have read quite a few papers, young man. You passed the mathematics and science sections with flying colors. Where did you learn all of this?

- I am self-taught, Herr Professor.

- Ah. That makes sense.

- Why is that?

- Because you failed everything else. Literature, zoology, botany, French, politics, to be specific.

- That's... that's quite a few subjects.

- Indeed.
- Oh, my father...Can you make an exception, sir? I-I only want to study physics.
- No, that is not how a university works.
- But literature is a pastime. I-I've never been to a zoo in my life. Botany I place under the same sub-section as literature... bourgeois. And French, well... pourquoi, sir?
- You forgot about politics.
- Politics are frivolous. They're only a matter of present concern. But a mathematical equation, Professor, well... that stands forever.
- I tell you what, I am going to bend the rules and invite you to audit my classes and to work in my laboratory.
- Will I be an official student?
- No.
- I need to earn a degree, sir. Because without one, I'll never be taken seriously as a physicist. And I'll never get an office like this, will I?
- There is a good school 25 miles west of here. I know a teacher who will take you in. You study for a year, well, you go to a zoo, you learn some French, and then you'll come back here and you'll retake the exam.
- I won't disappoint you, sir."

5. – Newton's Principle, Volume One: "Absolute, true, and mathematical time, of itself and from its own nature, flows..."

- "Equitably without relation to anything external." Time and space are absolute, I know.

- Yes, well, then, let's move on.
- But when pressed on the subject of absoluteness, Newton said, "The Deity endures forever, "and by existing always and everywhere, He constitutes duration and space." Which, in short, is saying... "I have no idea, but God must, so there."

- Albert.

- I-I know. I sh... I should go.

- Sit down. Well, it looks like we are going to have an interesting year. So let us move on to the next chapter. When we are looking at Newton and some of his other ideas...

6. - Oh, I'm sorry.

- For what?

- I must have the wrong room.

- What class are you looking for?

- Physics. Good day.

- Tell me, do you know Empedocles?

- Excuse me?

- Empedocles. The pre-Socratic philosopher who studied cosmogony.

- As I said, I am in...

- Physics. Yes, you made that quite clear. Cosmogony is the study of the origins of the cosmos. And Empedocles, he was the first known person to ask the simple question, what is light?

- I'm sorry, who are you?

- He believed that Aphrodite, a woman...in case you didn't know...formed the human eye and lit a fire in it, allowing us to see.

- Well, that's ridiculous. If that were the case, well, then we could see equally well at night.

- Empedocles thought the same, so he postulated that the sun's rays may be linked to the rays shooting from our eyes. A fanciful idea, I know, but if not for him, we might not have had the counter-theories of Aristotle, then Euclid, then Alhazen, Kepler, Newton, Faraday, and, finally, James Clark Maxwell. Light is electromagnetic radiation.

- I apologize. I didn't think...

- That a woman could possibly understand that the curl of the electric field is equal to the negative time derivative of the magnetic field?

4. Dwell on the following quotations from this episode:

“Rebellion will get you nowhere in life.”

“Your reputation precedes you”

“But did you know that Spinoza never taught a day in his life?”

“He was a lowly optical lens grinder.”

“Why should someone’s vocation define his intellect?”

“Because nationalism is an infantile disease.”

5. Write the brief summary of the episode.

6. Work in pairs or small groups and discuss the following:

1. The episode delves into the personal and professional life of Einstein. How do you think his personal experiences, especially during his formative years, influenced his scientific discoveries and perspectives?

2. Einstein was often at odds with traditional education and authority figures. How does the episode portray this, and do you think such confrontations were necessary for his intellectual growth?

3. The episode touches upon the societal norms and expectations of Einstein’s time, especially concerning relationships and marriage. How do Einstein’s personal choices reflect or rebel against these norms?

4. In this episode, we see the beginnings of Einstein's unconventional approach to science. How does the series depict the interplay between creativity and scientific rigor in Einstein's work?

5. The political climate and impending wars of Einstein's time played a significant role in his life and the lives of those around him. How does the episode handle the portrayal of these events, and how do you think they impacted Einstein's worldview?

6. Einstein's relationships with fellow academics and scientists are a highlight of the episode. How do these relationships, both supportive and antagonistic, shape his journey in the scientific community?

7. The episode showcases some of the challenges and biases Einstein faced, including those related to his Jewish background. How does the series handle these themes, and why do you think it's important to highlight these challenges in Einstein's story?

8. Based on this episode, how do you think the series "Genius" aims to humanize iconic figures like Einstein, showing their flaws, passions, and vulnerabilities alongside their monumental achievements?

GENIUS

EPISODE 2

BEFORE WATCHING

1. Translate the following words and be ready to reproduce them in their context:

refraction

reversible/irreversible/irreversibility

to assure sb

merely

a menace

to overlook sth

impudent

lame

to blush

insufferable

reluctance

infinite

ruddy

an imposer

commitment

to determine

thickheaded

a distraction

obnoxious

a gimp

horrid

to expand sth

exponentially

to compel sb to do sth

observable

provable

2. Fill in the blanks with the correct word from the list above. Make sure to adjust the word form if necessary to correctly complete the sentence.

1) It was _____ a small error, but it caused a huge misunderstanding among the team members.

2) The constant complaints from the guest became _____, making the host regret the invitation

3) Many ancient ruins _____ modern structures, hiding them from the immediate view of tourists.

4) His _____ to join the group was obvious, despite the numerous benefits outlined by the leader.

5) She couldn't help but _____ when she heard her name mentioned in the award nominations.

6) The universe is _____, a concept that is difficult for the human mind to fully comprehend.

7) The theory was finally accepted as _____ after years of extensive research and experimentation.

8) His _____ remarks towards the elderly man were met with disdain from everyone present.

9) Joining the volunteer program requires a serious _____ to helping those in need.

10) The damage to the painting was deemed _____, much to the museum curator's relief.

11) Many considered him an _____, falsely claiming achievements and honors that were not his

12) The scientist explained how light _____ when it passes through different mediums, affecting how we perceive colors.

13) He tried to _____ her fears by confirming his safe arrival in the storm-hit area.

14) Her sudden laughter in the middle of the lecture served as _____, diverting everyone's attention.

15) The character in the novel was seen as _____ by the villagers, always plotting schemes to their detriment.

16) The excuse he gave for his tardiness was so _____ that no one believed him.

17) The new policy is expected to _____ the company's growth _____ over the next decade.

18) The judge needed to _____ whether the evidence presented was sufficient for a conviction.

19) Despite clear instructions, his _____ nature led him to make the same mistake again.

20) The critics described the film's plot as _____, failing to provide any real suspense or intrigue.

3. Match the beginning with the end of the phrase. Translate the phrases and be ready to reproduce them in their context:

to pull sth	track of sb
to clear	up on sth
to lose	with sb
to take sb	a path for sb
to get	sb for sth
to intercede	and bump
to fault	apart

to pique	lost with sb
to jostle	one's interest

4. Read the sentences below and use the appropriate phrasal verb from exercise 3 to complete the sentences. Some verbs may need to be modified to fit the tense or grammatical structure of the sentence.

- 1) When the negotiations started to fail, the ambassador had _____ the leaders to prevent a breakdown in talks.
- 2) The mystery novel _____ from the first page, and I couldn't put it down.
- 3) It's hard _____ being cautious, given his past experiences.
- 4) The children decided _____ the old watch _____ to see how it worked inside, despite their parents' warnings.
- 5) As the train filled up, passengers began _____ into each other, trying to find space
- 6) The crowd began _____ the emergency responders, allowing them quick access to the accident site.
- 7) We decided to turn off our phones and _____ in the city together, just to see where we'd end up.
- 8) During the festival, it was so crowded that I quickly _____ my friends.

5. Match the following collocations with their meanings. Translate them into Ukrainian and be ready to reproduce them in their context:

1. increase in entropy	a) uundamental particles or substances that form a basis for something
2. underlying molecules	b) measure of disorder or randomness in a system

3. an underlying principle	c) a fundamental idea or concept that supports or forms the basis for something
4. idle conversation	d) to behave kindly or favorably towards someone
5. in need of	e) the characteristic of being easily ignited and capable of burning rapidly
6. a compelling demonstration	f) something at which someone excels; a strong point
7. under the impression	g) to be confused or perplexed about something
8. on sb's behalf	h) trying to achieve or do something
9. to be entitled to sth	i) to honor or acknowledge the basic or essential aspects
10. to find sth reassuring	j) to finish a given task or project
11. to be contrite about	k) failing to do or care for something
12. to complete an assignment	l) an idea or belief about what constitutes being feminine
13. to be baffled as to sth	m) to have a right to something
14. to respect the fundamentals	n) representing or acting for someone
15. a notion of femininity	o) chat or talk without serious intent or significance
16. in an attempt to do sth	p) to derive comfort or assurance from something
17. to neglect to do sth	q) requiring something
18. flammable nature of	r) believing, often mistakenly
19. to be one's forte	s) a powerful and convincing display or presentation
20. to treat sb well	t) feeling or expressing remorse or guilt

6. Fill in the blanks with the appropriate phrases from exercise 5. Some phrases may need to be modified to fit the tense or grammatical structure of the sentence correctly.

- 1) Every scientist should understand _____ that guides ethical research.
- 2) The student worked diligently _____ before the deadline.
- 3) The old library was _____ renovation to restore its former glory.
- 4) I was _____ that the meeting had been postponed, only to arrive and find it in full swing.
- 5) Cooking _____, and she enjoys experimenting with new recipes.
- 6) They engaged _____ while waiting for the conference to begin, discussing everything but work.
- 7) The _____ the material made it unsuitable for use near open flames.
- 8) As a long-term employee, she felt she _____ some recognition for her dedication.
- 9) The lawyer acted _____ to ensure his rights were protected during the trial.
- 10) The magician's _____ left the audience in awe, questioning the reality of what they had just witnessed.
- 11) He always makes an effort _____, showing kindness and generosity at every opportunity.
- 12) He _____ inform anyone of his departure, leading to confusion the next day
- 13) It's important _____ in any field to achieve lasting success.
- 14) The team worked late hours _____ solve the unexpected problem that arose.
- 15) The exhibition explored _____ across different cultures and eras.

7. Match the following idioms with their meanings and be ready to reproduce them in their context:

1) in distress	a) a lazy person
----------------	------------------

2) quite the contrary	b) very quickly; in an instant
3) to have the nerve to do sth	c) to pull someone into a worse state, either emotionally, physically, or socially. It can mean making someone feel sad, disheartened, or
4) to drag sb down	d) to be deeply in love with someone
5) to be heads over heels in love	e) troubled to have the audacity, boldness, or impudence to do something, especially if it might be seen as rude or inappropriate
6) in the blink of an eye	f) the opposite is true; used to disagree with something that has been said
7) a lazy dog	g) to have a minor limp or slight irregularity in the manner of walking
8) have a little hitch in her gait	h) experiencing suffering or pain, often severe; it can refer to both physical and emotional distress
9) by the skin of your teeth	i) to have a boyfriend or a male admirer
10) to have oneself a beau	j) narrowly; barely; usually, it's used to refer to narrowly avoiding disaster or just barely achieving something
11) to siphon sb's time	k) to draw away or divert someone's time, typically in an unnecessary or wasteful manner

8.Fill in the blanks with the appropriate phrases from exercise 7. Some phrases may need slight modification to correctly complete the sentence.

- 1) He passed the exam _____, barely making the grade required to advance.
- 2) Everything changed _____, transforming the landscape of the entire industry overnight.

- 3) The old hound was nothing but _____, lounging in the sun all day without a care.
- 4) When the ship started sinking, the crew was clearly _____, signaling for help frantically.
- 5) Negative people tend _____, making it harder to remain positive.
- 6) His demanding job seemed _____, leaving little room for personal projects or relaxation.
- 7) Ever since they met, they _____, spending every possible moment together.
- 8) She thought he would agree with her proposal, but _____, he rejected it outright.
- 9) After the minor accident, she _____, but it didn't stop her from completing the marathon.
- 10) It takes _____ ask for a raise during these tough economic times.
- 11) After years of solitude, she finally decided it was time _____ and started dating again.

9. Match the following collocations with their meanings. Translate them into Ukrainian and be ready to reproduce them in their context:

1. to be starved of sth	a) to be useful or beneficial to someone
2. constant derision	b) to regard someone with scorn or contempt
3. serve sb well	c) ongoing ridicule or mockery
4. scientific pursuit	d) to formally award an academic degree to someone.
5. treat sb with disdain	e) to have a considerable effect or influence on something
6. to give an offence	f) to be deprived of or lacking something essential
7. to look ruddy	g) to not meet the anticipated standards.
8. to confer degree on sb	h) to receive a certificate for completing

	a course of study.
9. to earn a diploma	i) the act of seeking or researching within the domain of science.
10. a stern face	j) a written formal rebuke or admonishment.
11. to fall below expectations	k) a serious or unsmiling facial expression.
12. a letter of reprimand	l) to appear reddish or healthy in complexion.
13. timbre of a musical instrument	m) to be explained or justified by something.
14. to be accounted for by sth	n) because or as a result of doing something.
15. to have the slimmest hope of sth	o) to have very little chance or expectation of something.
16. by virtue of doing sth	p) the distinctive quality or tone of a sound produced by a particular instrument or voice.
17. to have a significant impact on sth	q) to cause upset, hurt feelings, or insult

10. Make up 15 sentences with idioms from Exercises 9.

WHILE WATCHING

1. Identify the speaker and the scene of each of the following lines:

- A) *I did not come to university to flirt, or to meet a man, and certainly not to find a husband.*
- B) *And what would your daughter do with such instruction? Chatter in her sewing circle?*
- C) *Well, no man ever married a woman for her mind, hmm?*
- D) *Mileva Maric. One doesn't lose track of the sole woman in the room.*
- E) *How tireless I must be. How strong and cold to have the slimmest hope of being taken seriously. To be given an ounce of the respect you receive instantly by virtue of your manhood!*
- F) *The results will be posted shortly, but you passed your exams. By the skin of your teeth, of course.*

2. While watching check the meaning of the following terms and word combinations. Write the translation next to them:

Kinetic theory

electromagnetic theory

methods of Faraday

the speed of sound waves

magnify amplitude

entropy

infinitesimal universe

heat flows

exert different pressures

scientific pursuit

the laws of thermodynamics

equipartition theorem

diatomic gases

distribute the energy
molecules
velocity
kinetic theory of heat and gases
heat flows
to exert pressure
the law of cooling
the heat transfer coefficient
volume
collision
equal increments of temperature
molecular makeup
the degree of curvature
cartography

3. List the main characters introduced in this episode. For each character, note their relationship to Einstein and their significance in his life.

4. Describe Einstein's emotions and feelings towards each of the main characters.

5. Highlight any crucial turning points in Einstein's life as depicted in this episode.

6. Identify any scientific theories or concepts that Einstein discusses or works on in this episode.

AFTER WATCHING

1. General knowledge. Research and summarize information on the following individuals, presenting the findings in your own words.

Michele Besso

Marcel Grossmann

Wolfgang Amadeus Mozart

Ludwig Boltzmann

George Green

Carl Friedrich Gauss

John Winteler

Ernst Mach



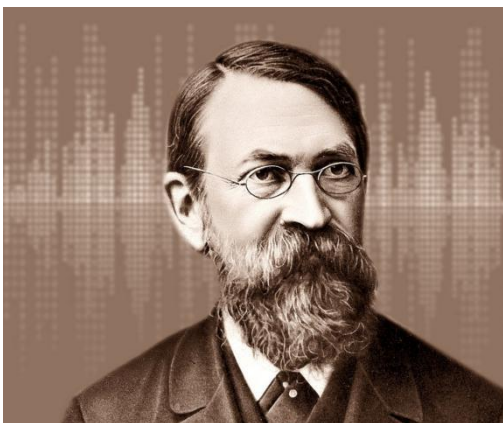
Einstein with Marcel Grossmann (left) and Michele Besso (right)



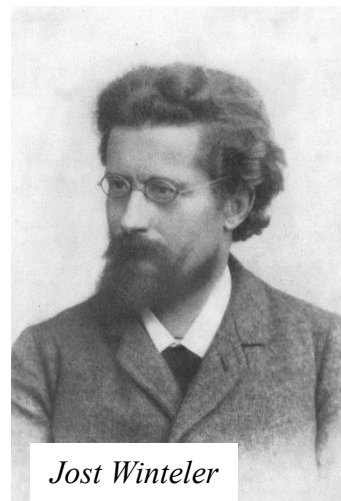
Wolfgang Amadeus Mozart



Ludwig Boltzmann



Ernst Mach



Jost Winteler

2. Identify the stylistic devices used in the following abstracts from this episode.

a) *You see knowledge as a baton to be passed....*

b) *Let us not fault him for being eager.*

Eager? He's a lazy dog. He hasn't completed a single one of my assignments.

c) *Your body's so soft, your face is so stern, just like a little porcelain doll....*

d) *Expectations are for small minds. For men like Weber, who are slaves to convention...*

3. Dwell on the following quotations from this episode:

a) *"Heidelberg does not, nor will not confer degrees on women".*

b) *"How tireless I must be. How strong and cold to have the slimmest hope of being taken seriously. To be given an ounce of the respect you receive instantly by virtue of your manhood!"*

4. Prepare a literary translation of these passages from the series rendering the intended tone of the author.

1. - Sorry about your pencils.

- Oh, no. No apology necessary. It was a-a compelling demonstration, actually.

- Yes, for a moment, I thought we'd bear witness to an explosive transfer of energy from Professor Weber's skull.

- Well, that would have been ... fantastically irreversible.

- Marcel Grossmann.

- Uh, we were just headed for some lunch. Would you care to join us?

- Why not?"

2. – Miss Maric! Miss Maric. What a kind gesture, leaving this book for me I couldn't help but think about the pencils. From our first class? If we think of entropy as Boltzmann does, as a measure of probability, well, then, the process is irreversible, because the number of possible configurations for the pencils outside of the box is

nearly infinite, whereas there's only a handful of possibilities for the way they fit back in...

- I'm glad you enjoyed it. Now if you'll excuse me...

- Don't go.

- We don't have much time left in the term, and there are... things I want to talk to you about, like...

-... The probability of chaos.

- You move me.

- You're playing a trick.

- No. I... What? What do you mean?

- I know you're spoken for. Herr Grossmann told me. ...about Marie.

So this is, what, a little fun at my...

- Stop.

3. - I've been trying to understand equipartition theorem and if it applies to the case of diatomic gases. How do I distribute the energy?

- As a matter of fact, it does indeed apply, and you use the theorem in exactly the same way as before.

- Uh, so then, you divide the energy equally, giving the rotational and vibrational modes the same amount as the translational ones?

- You have an impressive command of this material. With whom else have you studied?

- On equipartition theorem? Only you, sir. Though I did some reading while studying at Polytechnic in Zurich. I found the instruction on thermodynamics there... lacking.

- So you are here, auditing my lectures for... your enjoyment?

- No, sir. I mean, yes. I've enjoyed them very much, but... I've written an essay on kinetic theory. I was hoping you might make time to read it. And if you find it worthy, that you might write to the administration on my behalf? I've petitioned to be allowed to take the entrance exam.

- I admire your spirit, Fraulein, but the Swiss are much more liberal than the Germans. Heidelberg does not, nor will not confer degrees on women. You should return to

Zurich and earn your diploma. After that, I might be willing to consider you for a research position, hmm?

- Thank you, but, sir..."

5. Write the brief summary of the episode.

6. Work in pairs or small groups and discuss the following:

- a) What challenges does Einstein face in this episode, both personally and professionally?
- b) How does Einstein's character evolve from the previous episode ?
- c) Are there any moral or ethical dilemmas presented? How do the characters navigate them?
- d) Based on the events of this episode, make predictions about what might happen in the next episode.
- e) Speculate on how certain events in this episode might influence future occurrences in Einstein's life.
- f) Compare and contrast this episode's portrayal of Einstein with what you know of him from other sources or prior knowledge.
- g) Map out the significant scientific advancements of the time and see how they align with Einstein's personal milestones

GENIUS

EPISODE 3

BEFORE WATCHING

1. Translate the following words and be ready to reproduce them in their context.

disquisition

frankly

impudent/impudence

intimidating

discreet

wretch

illustrious

a breakthrough

to ambush sb

to deduce sth

to comply

to condone sth

to dazzle sb

to dunk

cast iron

eardrums

to linger

pompous

austere

haggard

humble

charade

acclaim

mind-set

a stipend

to eradicate

riveted

a sabotage

a clerkship

a peculiarity

2. Fill in the blanks with the correct word from the list above. Make sure to adjust the word form if necessary to correctly complete the sentence.

1. The smell of freshly baked cookies _____ in the kitchen, making everyone's mouth water.
2. The company's policy is not to _____ any form of misconduct among its employees.
3. The scientist's latest discovery was hailed as a major _____, changing the way we understand quantum mechanics.
4. His _____ behavior at the formal dinner embarrassed his colleagues and drew the ire of the host.

5. The author received widespread _____ for her novel, including several prestigious literary awards.
6. After weeks of surveillance, the detectives decided to _____ the suspect as he left his apartment.
7. Despite his wealth, he preferred an _____ lifestyle, devoid of any luxury.
8. The _____ look of the abandoned house was enough to deter the curious teenagers from exploring it further.
9. She spoke _____ about the challenges she faced during the project, leaving nothing out.
10. History remembers her as an _____ leader, whose policies transformed her country.
11. Scientists are working hard to _____ the disease within the next decade
12. The internship offers a monthly _____ to cover basic living expenses.
13. His magic tricks _____ the audience, leaving them wondering how he performed such feats.
14. The bridge's _____ structure ensured its durability over many decades.
15. Listening to loud music through headphones can damage your _____ over time.
16. She applied for a _____ at the local courthouse to gain experience in legal proceedings.
17. Changing one's _____ can often be more challenging than changing one's circumstances.

3. Match the beginning with the end of the phrase. Translate the phrases and be ready to reproduce them in their context:

to get	sb in sth
--------	-----------

to make	oneself
to sneak	to (no) religion
to indulge	inquiries
to duplicate	guilty as charged
to plead	zipping past sb
to impale	one's outcome
to subscribe	with sb
to nag	about
to go	up with sth
to come	sb
to be done	settled

4. Use the phrasal verbs from exercise 3 to complete the sentences. Make sure to adjust the verb form to match the tense and grammatical structure of each sentence.

1. After moving to the new city, it took them a few weeks to _____ in their new apartment.
2. Before buying the house, they decided to _____ about the neighborhood's safety and nearby schools.
3. The research team was ecstatic when they were able to _____ of their initial experiment, confirming the results.
4. During the medieval reenactment, one of the actors pretended to _____ on a sword for dramatic effect.
5. The mother had to _____ her son to clean his room every day until he finally did it.

6. The team needed to _____ a new strategy to improve their sales after the previous plan failed.
7. The cat tried to _____ through the garden without being noticed by the dog.
8. After years of unreturned calls and messages, he finally decided he was _____ her and moved on.
9. As they sat in the café, they watched cars _____ the pedestrians on the busy street outside.
10. She made it clear that she does not _____ any particular religion, preferring to explore spiritual ideas independently.
11. For her birthday, they planned to _____ her in a day of spa treatments and relaxation.
12. At the trial, the defendant chose to _____ as charged to receive a lesser sentence.

5. Match the following idioms with their meanings and be ready to reproduce them in their context:

to keep up appearances	This means to quickly or suddenly gain acknowledgment or fame, often implying it was done in a competitive or aggressive manner.
to take flight	This is a metaphor for being betrayed, especially by someone trusted. It implies a surprise or deceitful action against someone by a friend or confidant.
to be stabbed in the back	To provide something that is missing or lacking; to replace something that is absent, often in an emotional or existential context. It's about addressing a felt emptiness or need.
to snatch recognition	This refers to an audience that is compelled to listen or watch, often because they have no other choice.

	It's typically used in situations where the audience cannot leave, either due to politeness or physical constraints.
to be in (dire) straits	This means to maintain an outward show of prosperity or well-being, often when it's not the case. It's about preserving a façade or image for the sake of social perception.
captive audience	Literally, it means to start flying (as a bird or plane does). Figuratively, it can mean to flee or escape rapidly from a situation.
Long live sth/sb	To be in a very difficult or dangerous situation. The word "dire" adds emphasis, suggesting extreme severity or urgency.
to cinch an anchor around one's neck	This means to have high ambitions or goals; to aim for great or lofty achievements. It implies optimism and looking beyond immediate circumstances.
to have your eyes set on the stars	It suggests burdening oneself with a heavy and inescapable responsibility or problem, much like carrying an anchor.
to fill the void	This is an exclamation used to express the wish for the longevity or continued success of someone or something. It's often used ceremonially or in celebrations.

6. Rewrite the following sentences using one of the idioms from exercise 5, altering the sentence structure if necessary to accommodate the chosen idiom or collocation.

Example:

Original sentence: *They continue to show off their luxurious lifestyle on social media, despite their financial troubles.*

Transformed sentence: *Despite their financial troubles, they continue to keep up appearances on social media, showcasing a luxurious lifestyle*

1. After losing his job, he found himself in a very tough situation.
2. As soon as he saw the police, he ran away as fast as he could
3. After his dog passed away, he adopted a new puppy to help cope with the loss
4. I felt betrayed when my coworker took credit for my work
5. He dreams of becoming an astronaut and exploring space
6. She quickly became famous after her novel was published.
7. By buying that old house, they've taken on a huge and difficult responsibility
8. The students had no choice but to listen to the long lecture.

7. Match the following collocations with their meanings. Translate them into Ukrainian and be ready to reproduce them in their context:

to deserve the credit	An injection or supply of funds into a business or project, typically to stimulate growth or development.
unfortunate circumstances	Regular, consistent working hours, without significant changes or unpredictability.
to live up to sb's endorsement	A change or alteration made to something, usually to improve it or make it more suitable.
to put in a word with sb	An official governmental office where patents are filed, processed, and granted.
to be mortified	A very young baby that is making quiet, whimpering, or crying sounds.

decent wage	Basic or elementary learning, covering the fundamentals of a subject.
a riveting yarn	To gain or receive something as a result of winning a wager or bet made with another person.
to intercede	Former students of a school or university who have the necessary skills, education, or credentials.
impeccable hearing	Rude, rough, or insensitive behavior, lacking in refinement or civility.
to sing lullabies	To be dismissed or turned down, often in the context of a proposal, application, or relationship.
to set sb up in some place	To provide a valid reason or explanation for something, often making it seem acceptable or necessary.
taxing experience	To establish or arrange a place for someone to live or work.
to be rejected	Vacations or breaks that are luxurious, extravagant, or opulently celebrated.
to win sth in a bet with sb	Extremely precise or accurate auditory perception.
to justify sth	Urgent or important financial issues or problems that need to be addressed.
qualified alumni	A very engaging or fascinating story (yarn is a colloquial term for a story).
a modification to sth	To intervene on behalf of another person, typically to resolve a problem or dispute.
steady hours	To sing gentle, soothing songs that are often used to help a child fall asleep.

a patent office	An experience that is very demanding or exhausting, physically or mentally.
infusion of capital	To be worthy of recognition or praise for something done or contributed.
pressing money concerns	To speak to someone on behalf of another person, usually to offer support or a recommendation.
lavish holidays	Situations or events that are unfavorable, unlucky, or adverse.
rudimentary learning	To meet or fulfill the expectations or standards associated with someone's public support or approval.
a mewling newborn	A fair or adequate amount of pay for work done.
boorish behaviour	To feel extremely embarrassed or ashamed.

8. Use the appropriate collocation from the exercise 7 to complete each sentence. Make sure to adjust the form to match the tense and grammatical structure of each sentence.

1. She was looking for a job with _____, preferring a predictable and balanced work-life schedule.
2. The university is proud of its _____, many of whom have gone on to achieve great things.
3. After years of hard work and innovative research, she truly _____ for the prestigious award.
4. I'll _____ for you with the hiring manager; they value my opinion, so it might help.
5. The diplomat had to _____ on behalf of the detained journalist to secure their release.

6. The scientist had to _____ the use of such a controversial method in his study.
7. They decided to _____ in a cozy apartment downtown to help him start his new life in the city.
8. The new position offered a _____, which was significantly higher than what she was previously earning
9. The project had to be postponed due to _____ beyond our control.
10. Despite the noisy crowd, her _____ allowed her to hear the subtle notes of the hidden speaker.
11. She was _____ when she realized she had sent the confidential email to the wrong person.
12. Despite their _____, they make sure to set aside time for simple family activities.
13. The sound of the _____ filled the room, drawing immediate sympathy from all the visitors.
14. Their _____ forced them to reconsider their budget and cut unnecessary expenses
15. Working at the _____ allowed him to be at the forefront of technological advancements.

9. Match the following idioms with their meanings and be ready to reproduce them in their context:

to snatch the credit	
don't be thick	
get sth all hot and bothered	
to hardly add to sth	
to be remiss to do sth	
much to one's regret	
your record does your credit	

I swear it	
to stick one's head above grass for sb	
the world is beating down your door	
the well is dry	

10. Make up 15 sentences with the idioms from Exercises 9.

WHILE WATCHING

1. Identify the speaker and the scene of each of the following lines:

1. *He's snatched the credit you justly deserve.*
2. *I taught you never to rely on a man for anything.*
3. *Your father's business needed another infusion of capital, darling. I can't go to my brother again. I'm afraid the well is dry. You'll have to manage on your own.*
4. *I'm just getting started with my life. I'm-I'm worried that if I marry her, I'll never take flight.*
5. *An unmarried, pregnant woman traveling on her own. What will people say?*
6. *You are the most brilliant man I've ever met. You're going to do great things. But not if you cinch an anchor around your neck*
7. *And Rontgen has a Jewish heart. He's a rat, like the Jews. And rats must be eradicated.*

2. While watching check the meaning of the following terms and word combinations. Write the translation next to them:

cathode ray tube (CRT)

capillary effect

verbose style

quanta

radiation quanta

the ether

the medium

disturbance

X-rays

emissions of metal

Planck's concept

3. Create a timeline of the significant events in Einstein's life as depicted so far in the series.

AFTER WATCHING

1. General knowledge. Research information on the following individuals, geographical locations and scientific awards. Be ready to present information in your own words:

Wilhelm Rontgen

Maurice Solovine

Conrad Habicht

The Nobel committee

The Nobel Prize

Serbia

Milan



2. Choose the correct preposition to form corresponding prepositional phrases, translate them into Ukrainian and be ready to reproduce them in the context:

in / at / on/ after search of sth

at / on / under / with sb's behalf

beyond / behind / after / towards notoriety

at / in/ on / under most

to occur in / to / on / at sb

to count /at / in / on / under sth

to ruminate on / at/ in/ under sth

be untethered by / on / in / before sth

to sacrifice sth to / under / with / after / sth else

to abide with / on / to / for/ after sb

to sniff on / in / at / after sth

to say nothing of sth

3. Identify the stylistic devices used in the following abstracts from this episode.

1. ...*Like a pig digging for truffles*....

2. ...*it was like peeking through a keyhole to our future*...

3. ...*Someone else can rot in a patent office*...

4.*Physics is the next logical subject in my illogical curriculum*...

5. ...*Avaricious hunger for sth*...

6.*flank and front of my selfless deed*...

7. ...*I'm afraid the well is dry. You'll have to manage on your own*...

4. Prepare a literary translation of these passages from the series rendering the intended tone of the author.

1. - I was given the impression that the job was mine but for a formality. I've made many inquiries in search of answers, but I've been met with silence.

- So you have come for help, then.

- Just... a small favor, Herr Professor, a letter of recommendation, perhaps.

- Perhaps, uh, like, uh, this one. "Esteemed Herr Weber, forgive my impudence "in writing you directly, but I beg you to intercede on behalf of my poor Albert. As a concerned father..."

- My father? Herr Professor, I... I had no idea. I would... I would never ask my father to intercede on my behalf. Frankly, I'm mortified.

- As you should be.

- Like any other recent graduate, I am only asking that you put in a word with potential employers.

- Oh, but I have. Many universities have sought my counsel on your intellect and your character. But in good conscience I have not and I cannot... recommend your character.

- You gave me an unfavorable recommendation?

- Several, in fact.

- But that's sabotage.

- You openly challenged my authority. You publicly disrespected me. How am I to justify sticking my head above the grass for you when there are so many qualified alumni who have actually earned my respect?

- But this is my reputation we're talking about.

- And mine, too! If I recommend someone and they fail to live up to my endorsement, how do I look?

- But you don't understand, sir. I have... I have obligations.

- Obligations. You are what? 22? An unknown, unattached, healthy young man. What obligations could you possibly have?

2. - I've got a physics question. So, I was in my bathtub this morning, and I dunk my head at the same time as I knock my hairbrush in with my toe. And it hits the cast iron, and it sounds quite loud underwater. Why is that?

- Well, um... Indulge me in something that I like to call a thought experiment. Let's make waves. A hammer hits a string, causing a vibration which spreads out as a waveform. In this case, the medium is a disturbance of the air, which, when it hits your eardrums, is interpreted as sound. Unlike matter, waves travel better through denser materials. That's why your hairbrush sounded loud. Put your ears to a rail, and you can hear locomotives from miles away when all is silent an inch above the track.

- That's... fantastic.

- Yes.

- But do you want to know what I've really been thinking about? It's light, because light from this candelabra, say, is a wave, just like sound. But if waves travel better

through denser materials, then why can I put up my hand and block out the brightest of lights?

- Yes. Why?

- Well, scientists think that light travels through its own special, invisible medium. They call it the ether.

- Yeah, but if it's invisible, then how do we know it's there?

- We don't. People have been trying to understand this for years. We can't... We can't see it or feel it, but everywhere that light travels, the ether is there.

- That sounds pretty fantastical. I agree. But it's the best idea we've got. A wave needs a medium.

- But why?

- I don't know. But I intend to find out.

- Damn fine show, Einstein.

5. Write the brief summary of the episode.

7. Work in pairs or small groups and discuss the following:

1. How did the conventional academic world of early 20th century Europe stifle Einstein's genius? Discuss the challenges he faced in the academic environment and how it affected his career path .

2. Explore the subplot involving Philip Lenard's jealousy and anti-Semitism. How did these attitudes impact the scientific community at the time, and what challenges did they pose for Einstein ?

3. The episode addresses Mileva's life in Serbia, including her waiting for Einstein, delivering and losing a baby girl. Discuss the impact of Einstein's personal life and relationships on his scientific work and mental state

4. Einstein's attempts at tutoring were unsuccessful, and one of his students even received lower grades after his lessons. What does this tell us about Einstein's skills as a teacher and his approach to physics? How did his interactions with the Olympia Academy influence his thoughts on radiation packets (Quanta) and the nature of light

5. Discuss the cinematography, costume design, and setting of the episode.

6. How do these elements contribute to the storytelling and the portrayal of Einstein's era?

GENIUS

EPISODE 4

BEFORE WATCHING

1. Translate the following words and word combinations and be ready to reproduce them in their context.

a roach

to conspire

to declare sth

a dowry

to despise sb

to suffice

fraternizing

to oust

to indulge sb

footlights

to suffocate

to synchronize

to grieve

to devise

tantalizing

incongruence

obscurity

to disassemble

Superfluous

2. Fill in the blanks with the appropriate words from the list above. Some words may need to be modified to fit the tense or grammatical structure of the story correctly:

Once upon a time, in a town overshadowed by _____, a young woman received a _____ as part of her inheritance. Despite this, she was often _____ by her peers, leading her to _____ with those of kinder spirits. Her brother, a playwright, worked tirelessly by the candle light to _____ a play that would capture the _____ beauty of their homeland. However, their father conspired to _____ him in favor of a more pragmatic sibling. Refusing to let this break their spirit, the siblings _____ their efforts to support each other. The sister decided to _____ her brother by allowing him to use her dowry for his production. As the play's success grew, it _____ to draw attention from far and wide, _____ the local critics. The _____ between the siblings' vision and the critics' expectations was evident, yet the love and support they shared were enough to endure any hardships. In the end, their collaboration proved that even in _____, stars could shine bright, and their shared success was more than enough to _____ their critics' doubts.

3. Match the beginning with the end of the phrase. Translate the phrases and be ready to reproduce them in their context:

1. to pursue	with sb
2. to ease	recognition for sth
3. to indulge	sentiment
4. in correspondence	(no) footnotes
5. to take	one's passion
6. a nice	with the naked eye
7. to provide	one's burden
8. be confirmed	the notion

4.Fill in the blanks with the correct phrases from exercise. Some phrases may need to be modified to fit the tense or grammatical structure of the story correctly:

After years of hard work, Sarah finally decided to _____, leaving her corporate job to become an artist. Her friends tried to _____ by supporting her first exhibition. While some _____ that her career change was impractical, Sarah found herself _____ with fellow artists who shared her dreams. At her debut exhibition, she didn't _____ for her works; instead, she credited her success to her mentors. Many visitors commented on the _____ behind her artwork, though they noticed the exhibition _____. Despite skepticism, the beauty of her art could _____, proving her critics wrong.

5.Match the beginning with the end of the following phrasal. Translate the phrases and be ready to reproduce them in their context:

to make	a trench
to toil	away indulgences
to dig	an experiment
to lung	detained
to put	in a split second
to conduct	a mark with one's ideas
to be / get	in a fraction of a second
to pass	in
to pass	short of expectations
to fall	with sb
to be confronted	at sb

6.Fill in the blanks with the appropriate phrases from the list to complete the sentences:

1. The activist _____ for protesting without a permit but was released shortly after.
2. The soldiers began _____ around the perimeter to prepare for the incoming attack.
3. It's time to _____ and focus on healthier habits for the New Year.
4. The scientist decide _____ to test the new theory on quantum mechanics.
5. Many athletes know that years of training can _____ if they're not constantly pushing their limits.
6. After years of research, she managed _____ by developing a new sustainable energy source.
7. Life-changing decisions can sometimes _____, making us realize the importance of every moment.
8. The team had _____ harsh conditions to complete the project on time.
9. In a heated debate, he didn't hesitate _____ his opponent with strong arguments.
10. When he _____ his mentor, he knew he had to defend his thesis with confidence

7. Match the following idioms with their meanings and be ready to reproduce them in their context:

to save your breath	To be given a certain amount of time, usually for a specific purpose.
bloated windbags	To be thinking of a particular person for a specific reason or role.
to be granted a parcel of time	To look very similar to someone, often used in the context of family resemblance.

to relinquish a privilege	A strong feeling of fear or anxiety about something that might happen.
to have sb in mind	To force assistance or advice on someone who doesn't want it.
to accept a favor from sb	To be very close to a negative outcome or danger, usually as a result of potential error.
to be the split and image of sb	To receive help or a service from someone, usually with an implication of gratitude or a need to reciprocate.
the weather is turning	An expression indicating a change in weather conditions, usually towards something worse.
to be one misstep away from sth	To stop talking or explaining because it is unnecessary or won't be effective.
a sense of dread	An expression of regret, disappointment, or sadness about a situation.
to shove your help down my throat	Occasionally, from time to time.
but alas	To voluntarily give up a special right or advantage.
at the behest of	A derogatory term for people who talk a lot but say little of value, often full of self-importance.
now and then	At the request or order of someone.

8. Rewrite each sentence using the idiom provided. Ensure the new sentence keeps the original meaning but incorporates the idiom naturally.

Example:

Original Sentence: “You don't need to keep telling me; I already know.”

Transformed Sentence: “You can save your breath; I already know.”

1. "He looks exactly like his father."
2. "I couldn't have finished moving without my neighbor's help."
3. "The company decided to give me two weeks to complete the project."
4. "Please stop explaining the rules to me; I already understand the game."
5. "She decided to give up her right to the throne."
6. "I know exactly who I want for this job."
7. "It looks like it might start raining soon."
8. "This politician spends hours talking during the meetings without contributing anything useful."
9. "She's very close to losing her job due to these mistakes."
10. "I can't shake this feeling that something bad is going to happen."
11. "I see my old friends from high school occasionally."
12. "I hoped we could fix it, but it seems we can't."
13. "She organized the event because her boss asked her to."
14. "He kept offering me advice on my project, even though I didn't ask for it."

9. Match the following collocations with their meanings. Translate them into Ukrainian and be ready to reproduce them in their context:

heuristic point of view	Very high or ambitious targets, often challenging to achieve.
lofty goals/ ideas/ ambitions	A commercial deal or exchange of goods, services, or funds between parties.
an ample supply of	High moral standards or ideals that are often regarded as noble and admirable.
a business transaction	To be in a stable or strong situation, often in a job or argument.
lofty principles	A more than sufficient or abundant amount of something.
to have a solid position	An approach or perspective that involves

	learning or problem-solving through practical, experimental, or trial-and-error methods.
a prized heifer	An action taken to comfort someone or offer sympathy in a time of disappointment or grief.
a gesture of consolation	An unusual or unexpected characteristic in a mathematical context, often an anomaly or a peculiar result that is not typical.
a mathematical quirk	A highly valued female cow, often recognized for its quality or breeding potential.

10. Make up 10 sentences with the words, idioms and collocations from exercises 3, 5, 7, 9.

WHILE WATCHING

1. Identify the speaker and the scene of each of the following lines:

1. What are you aiming for, Albert? A piece of paper you can frame and hang on the wall?

2. *Albert, you of all people have no interest in a baby*
3. *I didn't marry you for a dowry, Dollie. I married you because I love you.*
4. *And how could she despise the woman who gave birth to her only grandson, huh?*
5. *We clean up after our husbands more than our children.*
6. *Mileva, darling, if there's one thing my Albert doesn't need help with, it's his science.*
7. *Well, I suppose we all fall short of expectations now and then.*
8. *Yes, I heard you had a son. Hold him tight, Albert. You think his childhood will last forever, but I promise you, it will pass in a fraction of a second.*
9. *Darling, open your eyes. You are not his partner. You are his librarian. You are his clerk.*
10. *No, no, tools don't make discoveries, doctor. People do.*
11. *History is full of bad jokes, I suppose.*

2. While watching check the meaning of the following terms and word combinations. Write the translation next to them:

piezoelectric meter
rudimentary device
mirrored quadrant electrometer
ionization chamber
sufficient dielectric
an electromagnetic signal
absolute simultaneity
a light ray
to be propagated from sth
a finite number of sth
photoelectric effect
prove the duality of light
radioactivity
to dissolve

glucose
osmotic pressure,
nickel-zinc battery
molecular mechanics
Stokes' law
hydrodynamic techniques
pollen particle
Brownian motion
cathode ray tubes
uranium
radium
gravitation
principle of relativity
Lorentz transformations
dilation
luminiferous ether

2. Highlight any crucial turning points in Einstein's life as depicted in this episode.

3. What is the significance of the “theory of special relativity” that Einstein develops in this episode?

AFTER WATCHING

1. Look up some information about these personalities. Mention their major contributions, awards, and significant life events:

- Marie Skłodowska Curie Pierre Curie
- Max Plank
- Jacobus Henricus van’t Hoff
- Hendrik Antoon Lorentz
- Henri Becquerel
- Gustav Kirchhoff
- Galileo Galilei
- Max von Laue



Max Planck



Marie Skłodowska Curie



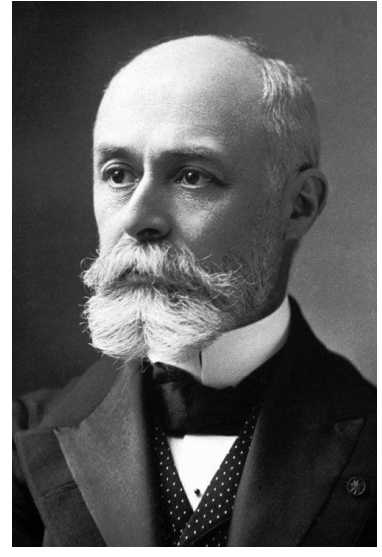
Pierre Curie



Jacobus van't Hoff



Hendrik Antoon Lorentz



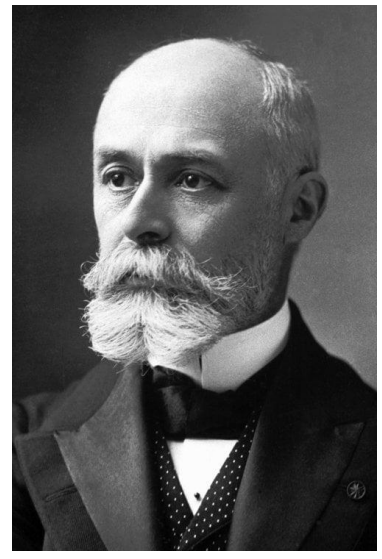
Henri Becquerel



Gustav Kirchhoff



Galileo Galilei



Max von Laue

2. Identify the stylistic devices used in the following abstracts from this episode:

1. *You can either wait for those dinosaurs to give you permission to engage in the scientific world, or you can show them.*

2. *Four weeks since I was published! Four weeks and not a peep! Were you expecting a parade?*

3. *It was one paper. I'll simply write another. And if no one takes any notice, I'll write another. They can't ignore me forever. We only need to find a problem. It seems to me you have an ample supply of those.*

4. *An incongruence, a paradox that nobody else sees molecular mechanics, the ether, light, space... Ah yes, the whole of physics. Shouldn't be too difficult.*

5. *If I could be granted the smallest parcel of time...*

Time, Herr Einstein, is a privilege you relinquished when you accepted this position.

He's a tyrant!

It's unbearable!

6. *He gives me four times the work as the other dolts in the office because I'm the only one who understands mechanical engineering!*

Poor thing. A boss who respects your intellect and a full time job that pays twice as much as mine?

7. *How does it feel accepting a favor from the swine who dishonored your sister-in-law?*

9. *Our marriage is not a business transaction! You are not a prized heifer to be bought and sold.*

That's very noble of you, Albert, but your lofty principles will not help me cook, clean, and raise a child all while midwifing your papers.

11. *I care about science living and breathing in the present and not suffocating in the past.*

3. Prepare a literary translation of these passages from the series rendering the intended tone of the author.

1. - May I help you, Mademoiselle?

- You gave me a shock. This is an original piezoelectric meter, yes?

- I'm sorry, but who are you?

- As a rudimentary device, it's quite effective. But it would be far more precise with the addition of a mirrored quadrant electrometer and an ionization chamber.

- When I built the first model, I considered an ionization chamber but wasn't convinced that air would be a sufficient dielectric.

- You invented the piezoelectric meter?

- Is there something I can do for you, mademoiselle?

- I'm looking for laboratory space to conduct my experiments. I'm studying at the Sorbonne.

- Physics?

- Magnetism to be specific.

- You haven't told me your name.

- Marie Sklodowska.

- It's a pleasure to meet you. Pierre Curie.

2. - Do you remember the Curies' paper on radioactivity? Working tirelessly, side by side, without heat in their lab or funding for their research. It's romantic, no?

- The Curies spent four years on that paper. I have only three hours until the patent office opens.

- You should get some rest. You can't think properly without sleep.

- I don't need sleep. I need more coffee.

- What is it?

- Do you remember our thought experiments on gas theory at university? Those weeks we spent holed up in my room?

- I remember quite a lot of experimentation, yes. Not all of it to do with science.

- What if we were going about it all wrong? What if, instead of studying gases, we studied a cup of coffee?

- You really must sleep, Albert.

- Jacobus v'ant Hoff's Nobel paper from 1901: Particles in a solution behave like a gas. When sugar dissolves in coffee, water surrounds glucose and tears it from the sugar crystal, correct? The more sugar I add, the thicker the coffee becomes. If we can calculate the osmotic pressure, perhaps we can deduce the precise number of...

- You want to prove the existence of molecules...

- Too ambitious?

- No. It's brilliant...

3. - And three-x-by-t-squared equals r by t-squared...

4. - And then apply it back to three dimensions and the coefficient...

- Michele, you're brilliant!

- Michele, what a nice surprise.

- Sorry I'm late.

- One dimension, Mileva. Michele's great insight. We calculate in one dimension! It's so...Elegant.

- I'm not sure I understand...

- Here, pretend I'm drunk.

- You don't drink.

- Pretend! If I had as much to drink as Michele, I'd be staggering everywhere, yes? Like pollen wiggling in the water. But where am I going? To the bar, the toilet, to the street?

- It's impossible to predict. We've been over this...

- Precisely. Michele's helped me see that we can't predict exactly where I'll go, but using simpler math, we can calculate how far I'll go over a period of time. Turns out it's six microns per minute. Exactly. Six microns per minute! I proved the existence of molecules and nobody believed me. And now I've proved how they move, and it can be confirmed with an ordinary microscope!

- That's wonderful...

- To Albert!

4. Write the brief summary of the episode.

5. Work in pairs or small groups and discuss the following:

1. What challenges does Albert Einstein face while working at the Bern patent office?
2. How does Einstein manage to write four new scientific papers despite his day job?
Discuss his work-life balance.
3. How does Einstein's new wife support him during this period?
4. Which of Einstein's papers attracts the attention of Max Planck, and why is this significant?
5. Describe the struggles and successes of Einstein during his "miracle year."
6. How does this episode depict the relationship between Einstein's personal life and his scientific achievements?

GENIUS

EPISODE 5

BEFORE WATCHING

1. Translate the following words and word combinations and be ready to reproduce them in their context.

consumption

hysteria/hysterical

disproportionate

oscillating

to disregard sth

to lurk

to unnerve sb

a taskmaster

intimidating

a disgrace

trifling

suspicious

to scold

redefinition of sth

to fathom sth

to suffocate

late

bearable / unbearable

fragile

rigorous

sickly

eminent

a barge

a shovel

a tramp

schizoid

discontent

2. Fill in the blanks with the appropriate word from the list above:

1. After watching the thriller movie, she couldn't shake off the feeling that someone was _____ in the shadows of her home.

2. The committee's _____ to the mounting evidence of environmental damage was criticized by activists.

3. His _____ laughter during the tense meeting only added to the already strained atmosphere.

4. The _____ levels of pollution in the city are causing an increase in respiratory diseases among its inhabitants.

5. The _____ critique from her supervisor left her questioning her decision to pursue a career in academia.

6. Known for his _____ training methods, the coach was both respected and feared by the athletes.

7. The _____ from his peers was unbearable after he mistakenly sent the confidential email to the entire company.

8. They embarked on a _____ of the term “freedom,” arguing it should encompass digital privacy rights.
9. His ability to _____ the complexity of quantum physics made him an _____ figure in the scientific community.
10. Despite the _____ comments, she found the feedback valuable and not at all _____ to her progress.
11. The fluctuating market prices have left farmers in a state of _____, unsure of the future.
12. To _____ someone with just a glance is a skill that some find _____, especially in negotiations.
13. Finding the garden _____ filled with water, he grabbed _____ and started to clear the muddy aftermath of the storm.
14. The notion that art is a _____ pursuit is a _____ to those who dedicate their lives to creating beauty.
15. Living in a cramped apartment with no ventilation felt like _____, making the move to a house with a yard a much more _____ situation.

2. Match the beginning with the end of the phrase. Translate the phrases and be ready to reproduce them in their context:

to count	one’s needs
to put	without something
to do	to sb
to meet	with sb
to prattle	a principle

to swallow	carefully
to devise	up with sth
to spit	on sth
to despise	one's blessings
to tread	sth/sb
to throw	one's pride
to be acquainted	sth out
to be drawn	doubt on sth

4.Fill in the blanks with the correct word from the list in exercise 3. Make sure to adjust the word form if necessary to correctly complete the sentence:

1. In times of hardship, it's important _____ and appreciate the good things in life, no matter how small.

2. Despite his achievements, he found it hard _____ the unfair criticism from his mentor, whom he had always respected.

3. I can't believe you _____ those noisy neighbors for so long without complaining.

4. After the argument, she had _____ and apologized first, hoping to mend the relationship.

5. The charity aims _____ the underprivileged by providing essential services and support

6. Living in the remote cabin taught me how _____ modern conveniences and still find happiness.

7. The scientist _____ that revolutionized the way we understand quantum mechanics.

8. After the presentation, several experts began _____ the validity of the new theory, causing a heated debate among the attendees.

9. When confronted about the secret, he finally _____ the truth, revealing what everyone had suspected all along.

10. During the meeting, she couldn't help but _____ about her weekend adventures, much to her colleagues' amusement.

3. Match the following collocations with their meanings. Translate them into Ukrainian and be ready to reproduce them in their context:

a slight croup	a social structure in which classes are determined by heredity, often found in certain traditional societies.
a prevailing theory	refers to a mild case of croup, a condition that causes a distinctive cough and difficulty breathing, usually in children. The term "slight" suggests it's not severe.
to apply to something	to acknowledge or recognize someone's contribution or responsibility for something.
warmongering monarchy	to create a distinct and typically positive image or opinion about oneself in the minds of others over a period of time.
a caste system	this is a theory that is currently widely accepted or most common among a specific group or in a particular field.
to declare a religion	a trait or characteristic that is common among family members, often due to genetic inheritance.
credit someone for something	means to make a formal request or to be relevant or pertinent to something. For

	example, “to apply to a university” or “rules that apply to a situation.”
establish a reputation for oneself	a monarchy that aggressively promotes or is eager to engage in war.
make an advancement	to possess the quality of being humble enough to do something, often implying that the action requires swallowing one’s pride or acknowledging one’s limitations.
run in the family	to formally announce one’s religious belief or affiliation
have a delusion	a concept or thought that is bizarre, unusual, or outside the norm.
renounce one’s citizenship	to formally give up one’s citizenship or nationality of a country.
put out the fire	literally, to extinguish a fire. Figuratively, it can mean to resolve a crisis or calm down a situation
to renounce one’s citizenship	to achieve progress or development in a particular area, like technology, career, or science.
an outlandish idea	to hold a belief or impression that is contradicted by reality or rational argument, typically as a symptom of a mental disorder.
	having more than enough time to complete a task or achieve something.

to be blunt	to deal with or address a situation that is unique or specific to a particular field or context.
to cover a specialized circumstance	to speak in a direct, straightforward manner, often without regard for diplomacy or softening the impact.
ample time to do something	a short period of feeling sad or pensive without a specific cause.

6. Fill in the blanks with the correct collocation from the list in exercise 5. Make sure to adjust the word forms if necessary to correctly complete the sentence:

1. The firefighters worked tirelessly _____ before it could spread to nearby houses.

2. The breakthrough in medical research was considered a major _____ in the fight against cancer

3. Musical talent seems _____, with each generation boasting at least one professional musician.

4. After living abroad for many years, she decided _____, adopting her new country as her home.

5. This law was created _____ not encountered in general practice

6. _____ among scientists is that dark matter makes up a significant portion of the universe's mass.

7. _____, your performance this quarter has not met our expectations.

8. The child developed _____ after being exposed to the cold weather, causing concern among his parents.

9. In many societies, _____ has been used to maintain social order and hierarchy.

10. The project deadline was extended, giving us _____ to complete our research thoroughly.

11. After losing his job, he went through _____, struggling to find his purpose.

12. Proposing that we could live on Mars within a decade was _____ that sparked much debate

13. This scholarship _____ students who excel in the arts as well as in academics.

14. The history book described _____ that led its people into numerous unnecessary conflicts.

15. The new king decided _____ as the official state religion, marking a significant shift in policy.

7. Match the following idioms with their meanings and be ready to reproduce them in their context:

to have sb in mind	To be stopped or delayed in progress, often referring to projects, plans, or vehicles.
at the behest of sb	To cause a situation to become even more problematic or difficult.
in response to sth	To experience a feeling of deep anxiety, nervousness, or unease.
tongue-tied	To experience periods of feeling sad,

	depressed, or pessimistic.
to be stalled	Reacting to or answering something, such as a question, action, or event.
to make matters worse	On the command or request of someone. This implies that the action is taken because someone else has asked for it or ordered it.
to overcome fears	Unable to speak or express oneself smoothly or effectively, often due to nervousness or shyness.
to have (no) quarrel with sb	To be in a more advantageous situation or condition by not having a particular thing or person in one's life.
to be flattered	To feel a complete loss of hope about something.
to get a pit in my stomach	To be hesitant or unwilling to do something.
to have dark moods	To be thinking of a particular person for a specific reason or purpose, such as considering them for a job or task.
to be better off without sth/sb	To have (or not have) a disagreement or argument with someone.
to be in despair about sth	To feel honored or pleased by something, often a compliment or positive attention.
to be up in the air about sth	To be not involved or not connected

	with something.
to have nothing to do with something	To be uncertain or undecided about something.
to be reluctant to do something	To be a person or thing that is regarded as very foolish or ridiculous, often a subject of mockery.
to be a laughingstock	To successfully deal with or gain control over fears or phobias.

8. Read the following story about Liam, a young man from a coastal town with dreams bigger than the sea. Some parts of the story are missing, represented by numbered blanks. Fill in the blanks with the correct phrase from exercise 7, based on the context of the story. Each phrase can only be used once.

A Tale of Courage and Change

Liam had always been (1)_____. He lived in a small coastal town where fishing was the way of life for most, including him. However, Liam dreamed of exploring beyond the sea that bordered his home. His heart yearned for adventure in the vast world beyond, yet the thought of leaving everything behind (2)_____.

His best friend, Sophie, knew all about his dreams and always encouraged him. “You’re (3)_____ staying stuck here all your life,” she would say. But Liam was (4)_____ leaving his family and the only life he knew.

The opportunity came unexpectedly. An explorer visited their town, seeking crew for a journey to uncharted lands. This was Liam’s chance, but he (5)_____ when trying to express his interest. The fear of the unknown and the possibility of becoming (6)_____ if he failed held him back.

One evening, (7)_____ Sophie, Liam met with the explorer. They talked long into the night, and for the first time, Liam felt (8)_____ that someone

believed in his hidden potential. The explorer had (9)_____ for a role that required creativity and bravery, not just strength.

Facing his fears, Liam decided it was time (10)_____ that anchored him. His decision (11)_____ his family initially, but they soon realized he needed to follow his heart. They had (12)_____ him pursuing his dreams; they just feared for his safety.

The night before his departure, Liam couldn't sleep. The thought that he (13)_____ the fisherman's life anymore filled him with both excitement and sadness. He was (14)_____ of doubt and step into the unknown.

As the ship sailed away, Liam looked back at his town, feeling (15)_____ but also a sense of freedom. He knew the journey would be challenging and that he would need (16)_____ in the face of danger. Yet, the support of his friend and the explorer's confidence in him made him believe he was prepared for whatever lay ahead.

In the end, Liam's journey taught him about the importance of chasing one's dreams, regardless of the fears and uncertainties that come with it. He discovered new lands, but more importantly, he discovered his true self. He realized that life is about embracing change and that sometimes, (17)_____ the unknown is the greatest adventure of all.

9. Make up 10 sentences with the words, idioms and collocations from exercises 1, 3, 5, 7 .

WHILE WATCHING

1. Identify the speaker and the scene of each of the following lines:

1. *The last thing I want to do is paint on a smile and chatter about the weather with strangers.*

2. *A man can't avoid his fears. To overcome them, he must face them, pass through the inferno.*

3. *Prague's a caste system. Germans on top, Jews in the middle and the poor Czechs beneath them both.*

4. *I think, of all the mysteries in the universe, people are the hardest for me to fathom.*

5. *Scientists must take risks. Otherwise we'd never make any advancements.* 6. *You've established a strong reputation for yourself. You should tread carefully. It's not hard to go from genius to laughingstock.*

7. *Your father is a human being. Human beings make mistakes.*

8. *Don't you sometimes think that, well, life isn't worth living without someone to love.*

2. While watching check the meaning of the following terms and word combinations. Write the translation next to them:

acceleration

inversely proportional

directly proportional to sth

scattering of light

constant speed

emission theories

conjecture

resistance

gravitational force

to pull nitrogen out of thin air

psychiatry

a perpetual process of decay

sub-atom

disintegration

the ratio of the diameter

circumference

Pi

four dimensions

3. Choose one of the scientific concepts discussed in the episode. Write a brief essay or prepare a presentation on how this concept was understood at the time of the characters' lives versus how it is understood today.

AFTER WATCHING

1. Study the following Mind Map Framework of the proper names mentioned in this episode. Find some extra information about these prominent people, places, institutions etc.

Mind Map Framework:

Academic Figures and Institutions

Professor Max Planck
Professor Hermann Minkowski
Karl-Ferdinand University in Prague
Sigmund Freud

Historical and Political Context

Austro-Hungarian Empire
Count Von Sturgkh
The Holy Crown

Geographical Locations and Landmarks

Salzburg
Brussels
The Alps
Mount Kaferberg

Scientists and Scholars

Fritz Haber
Ernst Rutherford
Paul Langevin
Erwin Freundlich

Cultural and Literary Figures

Franz Kafka

Science and Education

Arnold Sommerfeld
Henri Poincaré

Influential Conferences and Events

the Solvay Conferences

Miscellaneous Individuals

Jakob Laub

2. Identify the stylistic devices used in the following abstracts from this episode.

1. With my patients, I've found whatever's troubling them on the surface, fear of speaking, for example, there's something much more fascinating lurking in the unconscious.

2. Why should I be happy in a new city? It will just be more of the same. Wash dishes, change diapers, buy groceries. I might as well be a mule tied to a cart. When do I get to use my mind?

3. With respect, Doctor, I'd rather not be analyzed. I'd prefer to remain in the dark.

4. Prague is a like pretty girl with a cold heart.

5. It's not hard to go from genius to laughingstock.

6. You look like a tramp

7. That feels like eons ago. Love is a chemical reaction. Sometimes, it burns itself out.

3. Prepare a literary translation of these passages from the series rendering the intended tone of the author.

1. - I'd like to continue our work together, so why don't you come to Prague with me, Jakob? Maybe I could get you a position at the University. We'd have time to work on accelerated motion.

- Albert, I'm flattered, but I've received another offer.

- A professorship?

- No. Assistant to Philipp Lenard.

- Well, Lenard's a genius. Of course, you must accept.

- Yes, but he's got a bit of a reputation. Quite a taskmaster, apparently. Honestly, I get a pit in my stomach just thinking about it.

- I know how you feel. In Salzburg, I was so nervous before my lecture, I thought my heart was going to stop right in the elevator. Actually, I... I imagined something very strange, as though the elevator were falling, and I was just floating inside it. It was terrifying at first...but then, suddenly, it was as if, well...as if I had no weight at all. Because a falling man does not feel his own weight. Me, the floor, my papers, were all falling at the same rate, so I couldn't feel the pressure of the floor on my feet. But what if the elevator was rising? I'd be accelerating in the opposite direction. It would produce the opposite effect.

- You'd feel the floor.

- I'd be glued to it, as I am now.

- But that's gravity.

- Exactly! I should have seen it before. It is so simple, so beautiful. Acceleration and gravity are the same thing. This is the idea I've been missing to complete relativity. This may just be one of the happiest thoughts of my life.

2. - What did you think of my elevator thought experiment?

- Mm. I'm still up in the air about it.

- I've realized another wonderful consequence of my idea.

- Hmm.

- Gravity bends light.

- That is a completely new conception, Albert. But even if you're right, you'd need a huge gravitational force to show it.

- The sun would do, wouldn't it? Imagine that log is a particle of light. Now think of the river as space. And you see the barge, there? That's the sun. Now watch. The sun's gravity changes the shape of space.

- I will credit you for originality, Albert. But is it possible that you've gone a bit too far?

- No. It's so beautiful that it must be right. And an astronomer could prove it.

- Then I suppose you'd better find a good astronomer.

2. - Herr Professor, what an unexpected pleasure. What-What brings you to Zurich?

- Well, to begin with, I've found you an astronomer. Name is Freundlich. He's young, but ambitious.

- You must tell me all about him, but first, take a look at the spider on the record.

- Ah.

- *Agelena labyrinthica*, I think.

- So, you know each other? Ask her what's the ratio of the diameter of the record to the circumference.

- Pi, of course.

- Not to the spider, it isn't. Because of relativity, the circumference is shorter in the direction of rotation.

- I'm not sure I follow.

- This beautiful little creature has given me the key to formulating general relativity. It cannot be done with three-dimensional geometry. Dr. Jung made me realize Minkowski was right. I need four dimensions.

- This is wonderful, don't you see?

- I hope that you'll think that this is wonderful, too.

- The Prussian Academy.

- It's an official offer.

- My God. It's good money.

- Mm

- But I don't know if I can accept.
- I thought you'd be thrilled.
- It's complicated. Berlin is...
- Berlin is what?
- I'm sorry, I need some time to consider.
- It wasn't easy for us to get you this offer, Albert. I can't very well go back to Berlin without an answer.
- Why don't you take a little hike up Mount Kaferberg?
- A hike?
- It's a lovely view of the city. It'll take you two hours. I'll meet you at the bottom with my answer.
- Very well.

4. Write the brief summary of the episode.

5. Work in pairs or small groups and discuss the following:

1. How do the personal struggles of Albert Einstein, as depicted in this episode, impact his scientific work? Do you think his personal experiences influenced his approach to science?

2. Episode 5 highlights the challenges faced by Mileva and Marie Curie in balancing family life and scientific careers. Discuss the portrayal of these challenges and their relevance to contemporary issues faced by women in science.

3. Analyze the conversation between Edward Einstein and Carl Jung regarding forgiveness. How is forgiveness portrayed as a healing process, and do you think it's accurately represented?

4. Discuss the societal expectations and constraints placed on Mileva and Marie Curie. How do these constraints differ, and what do they reveal about the societal norms of their time?

5. Explore the relationship between Albert Einstein and his son Edward. How does the show depict the impact of Albert's career on his family life, and what are the consequences of this portrayal?

6. Discuss the depiction of Einstein's realization that gravity and acceleration are the same force. How does the show use visual elements to convey complex scientific concepts?

7. Evaluate the balance between historical accuracy and dramatization in this episode. Which elements do you believe were accurately portrayed, and which were dramatized for television?

8. Analyze the conversation between Mileva and Marie Curie about the feminist dilemma of their time. How does this conversation reflect the ongoing struggles of women in academia and professional fields?

9. How does the episode explain Einstein's struggle to expand his theory of special relativity? Discuss the significance of his theories in the context of the episode.

10. The episode touches on various moral and ethical issues, including the blame game in the family and societal judgments. Discuss how these issues are presented and their relevance to the characters' development.