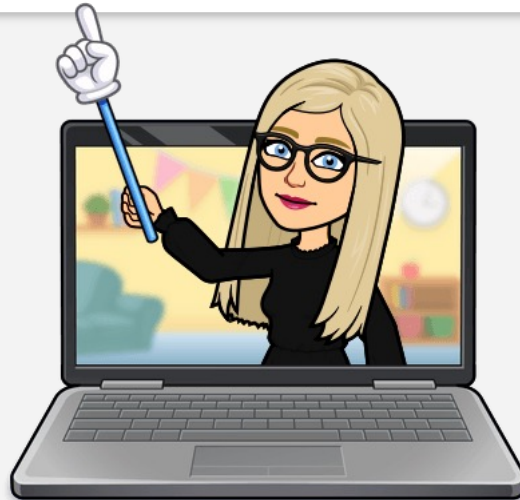


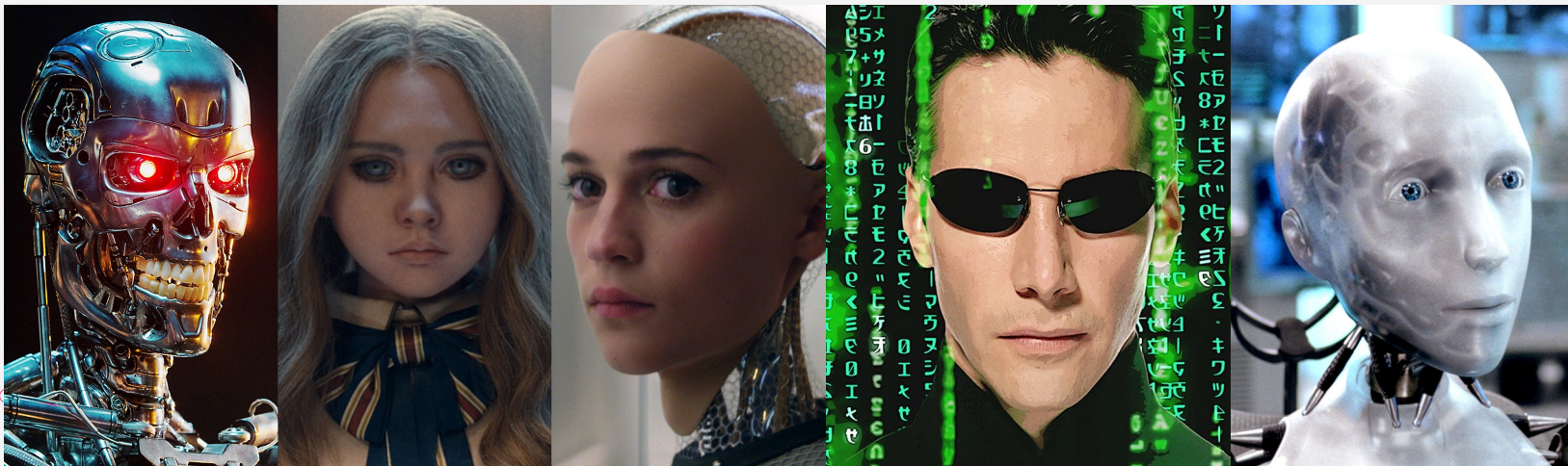
Ai and Education



Stretch Students not Teachers



Q Ice Breaker



Workshop Overview



- Introduction
- Ai → ChatGPT Overview
- Lesson Planning
- Resource Creation

Who Am I?



Shannon Ahern

- Maths & Science Teacher in all boys school in Cabra
- Ai for Teachers Course Facilitator with DWEC
- Instagram Content Creator (@craic_matamaitic)
- ChatGPT user for 16 months





Who Am I Not?



- I am not an AI expert
- I don't work for OpenAI
- I am not paid by any AI company

Please don't ask about
the AI apocalypse – that
is not my area of
expertise!



How I discovered ChatGPT



November 2022





Write an Acrostic Poem about the Theorem of Pythagoras



ChatGPT

Perched on the shoulders of ancient minds,

You u

The T

He sh

In right triangles, your wisdom prevails,

Geometry's

Hidden with

$A^2 + B^2 =$

The mathematician Pythagoras, his name in fame,

Gave us this theorem, his enduring claim.

Over the ages, your essence persists,

Revealing harmony in geometric twists.

As we explore the world of math's grand stage,

Showcasing the beauty of a square's embrace.



That's not quite an acrostic



ChatGPT

My apologies for the oversight. Here's an acrostic poem using the letters "P Y T H A G O R A S":

Pythagoras, a name in history shines,
You brought math's beauty to ancient minds,
The theorem bearing your honored name,
Has earned its place in the hall of fame,
 $A^2 + B^2 = C^2$, a truth so clear,
Geometry's marvels, you made them appear,
On right triangles, your wisdom did bestow,
Revealing the secrets of how lengths grow,
And through the ages, your legacy endures,
Shaping the world with mathematical cures,
So, Pythagoras, we celebrate your grace.



Write a song about Algebra in the style of Taylor Swift



ChatGPT

(Verse 1)

I was lo

Trying t

My hea

But the

(Pre-Chorus)

Oh, Algebra,

But now you'

In your equat

You and me,

(Chorus)

Algebra, you're my X and O,

You're the one who makes my heart glow,

Solving problems, we'll take it slow,

In this mathematical love, we'll grow.



Provide the chords



ChatGPT

Certainly! Here are the chords for the song "Algebra" in the style of Taylor Swift:

[Verse 1]

G D

I was lost in a world of numbers and signs,

Em C

Trying to solve for "X," I couldn't define,

G D

My heart was tangled in equations so complex,

Em C

But then I found a love that was so perfect.



Can it do what I do???



Grand Prix	Track Length (km)	Number of laps	Total Distance (km)
Bahrain	5.412		308.238
Saudi Arabian	6.175	50	
Australian		58	307.574
Azerbaijan	6.003		306.049
Miami	5.412		308.326
Emilia Romagna	5.040	60	
Monaco	3.337	78	
Spanish		66	307.104
Canadian	4.361	70	
Austrian		71	306.958
British	5.891		306.198
Hungarian	4.381	70	
Belgian		44	308.052
Dutch	4.259	72	
Italian	5.793		306.720
Singapore	5.063	61	
Japanese		53	307.471
Qatar	5.380		306.66
United States	5.513	56	
Mexican	4.304		305.354
Brazilian	4.309	71	
Las Vegas	6.120		305.88
Abu Dhabi	5.281		306.183

What is the mean distance covered in an F1 race?

What is the median distance covered in an F1 race?

What is the modal number of laps?

Which Grand Prix is an outlier in terms of total distance raced? What makes you say this?

Which Grand Prix has the most laps?

What is the range of number of laps in an F1 race?

Which track has the longest circuit?

If Verstappen completes a lap at the Dutch Grand Prix in 1 minute and 14 seconds, how long will it take him to complete all 72 laps?

Leclerc completes one lap of the Italian Grand Prix circuit at an average speed of 240 km/h. What is the time it took him to complete one lap of the circuit?

1. Research all the tracks and list them in chronological order
2. Research info about the tracks and format in table form
3. Come up with my own set of stats questions...



ChatGPT



New chat

Photosynthesis Documentaries fo

Math Concepts and Solutions

Reproduce Table 5.1

Ionic Compounds Properties

New chat

Sigma vs Pi Bonds

Eras Tour Stage Dimensions

Math Positivity Impacts Learning

Geometry Learning Intentions

Coordinate Plane Generation

Duck Teacher Images



Shannon Ahern

ChatGPT 3.5 ▾



How can I help you today?

Make a content strategy
for a newsletter featuring free local weekend e...

Create a content calendar
for a TikTok account

Help me debug
a linked list problem

Write a thank-you note
to our babysitter for the last-minute help

Message ChatGPT...



ChatGPT can make mistakes. Consider checking important information.

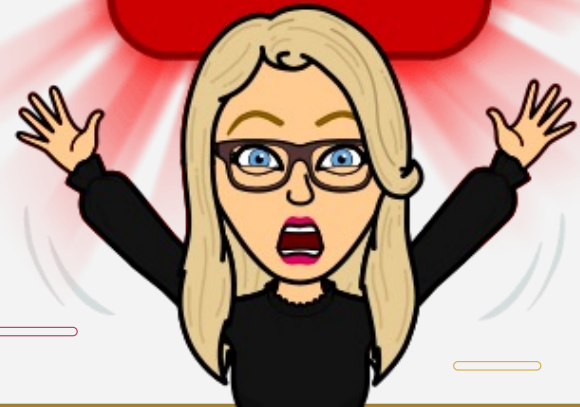




Can it do what I do???



YES.





Do I need to worry about AI replacing me?

No.

It is just another tool in the toolbox.

Unlike other tools in the toolbox however it won't add to the teacher workload ◦






“AI will de-skill teachers”





What is currently de-skilling teachers?


 Independent

TUI Conference: Teachers working at night and weekends due to 'bone-headed' Government decisions


IRELAND faces a teacher recruitment and retention crisis because the Government took the "bone-

11 Apr 2023



 Independent.ie

Excessive workload 'eroding the morale of teachers' – TUI

An ( The Irish Times


from

19 /

Technology is increasing teachers' workload, survey shows – The Irish Times

Almost three quarters c

3 Apr 2015

 Independent.ie

Teachers work 24 hours outside class each week

SECONDARY teachers only spend half their working week in the classroom, a new survey has found.

1 Apr 2010





A truly revolutionary tool



- As educators, one of our greatest challenges is recognising what our individual students need to thrive, yet often finding ourselves constrained by limited time or depleted energy levels.
- Artificial Intelligence offers a much-needed solution, acting as an additional pair of hands, another head to bounce ideas off as well as providing the extra time we have long sought to effectively support our students' success.



ChatGPT for Teachers



AI Tools for
Teachers



Ai Tools for Teachers



Curipod

Uses artificial intelligence to create interactive educational presentations (like menti)



Twee

Uses artificial intelligence to create quizzes, worksheets, video transcripts etc.



Magic School AI

Uses AI to assist lesson planning, differentiating instruction, writing assessment



Diffit

Uses AI to create differentiated resources.

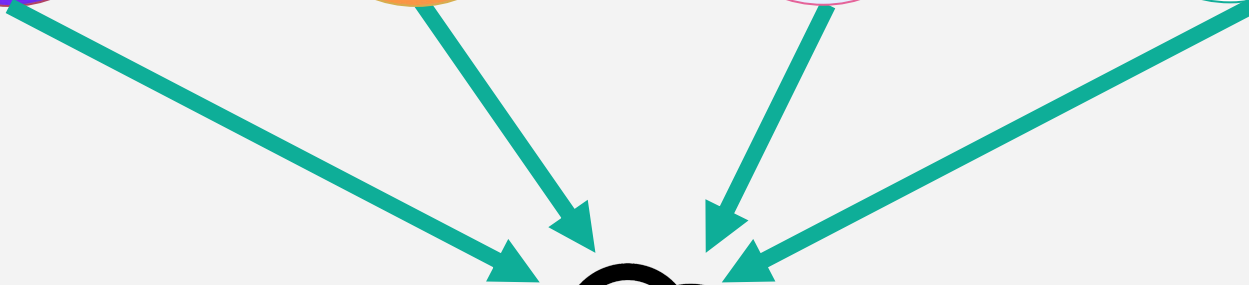


Underneath it all...





Underneath it all...





ChatGPT



ChatGPT



What is it?



“ChatGPT is a **large language model** created by OpenAI that is designed to understand and respond to human language. Trained on a massive dataset of text using the Transformer architecture, ChatGPT can generate human-like responses to a wide range of **prompts** and questions.”

- ChatGPT (2023)



How does it work?

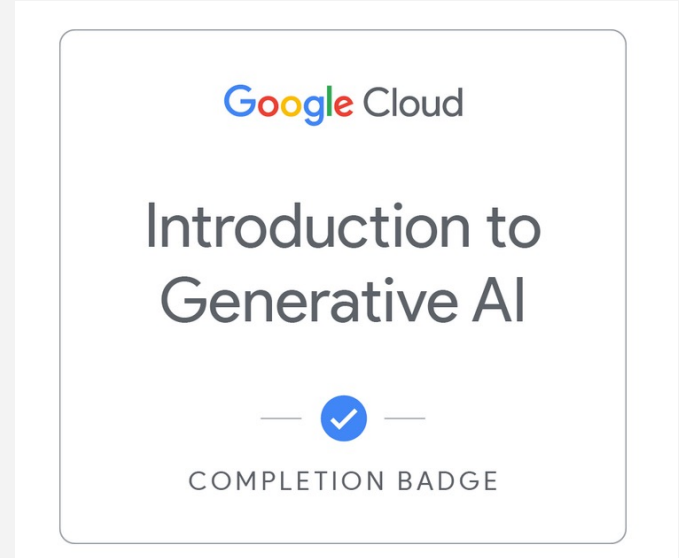
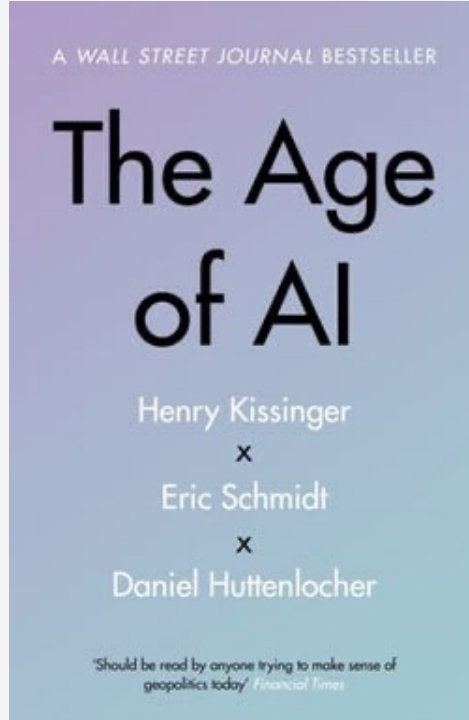
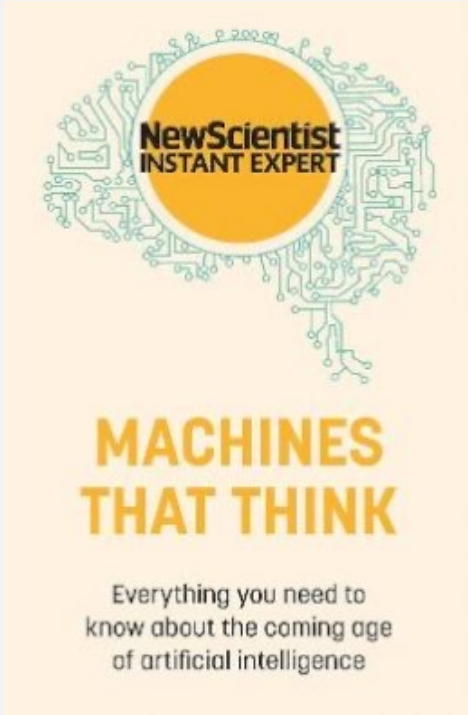
- It uses maths to predict and generate the string of words it thinks you want based on key words provided in the prompt.
- The more context you provide in prompts the better the output



Is it bias?

- LLMs are trained on vast amount of text data that was available online.
- The majority of this text is bias and so ChatGPT will have inherited that.
- It is no more or less bias than the textbooks we use.

How do I learn more?





ChatGPT



New chat

Photosynthesis Documentaries fo

Math Concepts and Solutions

Reproduce Table 5.1

Ionic Compounds Properties

New chat

Sigma vs Pi Bonds

Eras Tour Stage Dimensions

Math Positivity Impacts Learning

Geometry Learning Intentions



Shannon Ahern

ChatGPT 3.5 ▾



How can I help you today?

Tell me a fun fact
about the Roman Empire

Suggest fun activities
for a family of 4 to do indoors on a ra...

Give me ideas
for what to do with my kids' art

Brainstorm names
for a non-alcoholic cocktail with Cok...

Message ChatGPT...



ChatGPT can make mistakes. Consider checking important information.



ChatGPT

	Basic Package	ChatGPT Plus
Cost	Free	€23/month
Internet Access	No	Yes
Image Generation	No	Yes
Ability to upload images/documents	No	Yes
Create Custom GPTs	No	Yes
Ability to do Maths	Fair – Poor	Excellent – with plugins



ChatGPT



New chat

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ChatGPT 3.5 ▾

Past Conversations



How can I help you today?

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about the Roman Empire

Suggest fun activities
for a family of 4 to do indoors on a ra...

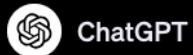
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ChatGPT can make mistakes. Consider checking important information.



ChatGPT



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ChatGPT 3.5



How can I help you today?

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for a non-alcoholic cocktail with Cok...

Message ChatGPT...



Prompt box

ChatGPT can make mistakes. Consider checking important information.



How can teachers use it?



- Emails
- Policy documents
- Lesson Plans
- Lab Safety documents
- Units of learning
- Schemes of work
- Maths problem sets
- Differentiated lessons and activities
- Permission Slips
- Student Support Documents
- Sample Essays
- Worksheets
- Rich tasks
- Excel formula
- Student reports
- Reading Comprehensions



Bespoke Lessons in a fraction of the time



Planning with ChatGPT



ChatGPT



Chem Grid Maker



Explore

Today

Kids' Art Storage Ideas

Educational Apps as Toys

F1 Tracks 2019 Summary

F1 2019 Track Details

Pythagoras Theorem Acrostic

Pythagoras Theorem Acrostic



Shannon Ahern

ChatGPT 3.5 ▾



How can I help you today?

Design a database schema
for an online merch store

Help me pick
a gift for my dad who loves fishing

Show me a code snippet
of a website's sticky header

Compare design principles
for mobile apps and desktop software

Message ChatGPT...



ChatGPT can make mistakes. Consider checking important information.



Create a lesson plan on the circulatory system for 13 year old boys



can you present this in table form. the column headings are : time, activity, differentiation and assessment

Time	Activity	Differentiation	Assessment
Day 1			
10 min	Engagement	Use a captivating video or images to grab students' attention.	Observe students' engagement and ask questions about their prior knowledge.
15 min	Discussion	Encourage active participation and discussion. Allow students to share their existing knowledge.	Participation in the discussion.
15 min	Introduction to the Circulatory System	Use visual aids and simple language to explain the basics.	Monitor students' engagement and comprehension.
5 min	Interactive Activity	Ensure all students can feel their pulse and discuss their observations.	Participation and understanding of pulse.
5 min	Summary	Recap key points and emphasize the importance of the circulatory system. ↓	Participation and ability to summarize.



a lesson plan on the circulatory system for 13 year old boys



can you present this in table form. the column headings are : time, activity, differentiation and assessment



I have a student in the class with MGLD include strategies to support them in the differentiation section of the tabulated plan

Time				
Day 1	5 min	15 min	Blood and Blood Vessels	Simplify explanations and provide concrete examples. Encourage questions from the student.
10 min	Day 2			Monitor the student's engagement and understanding during the discussion.
15 min	10 min	5 min	Hands-on Activity	Offer individualized guidance and support for the diagram activity, ensuring they can complete it with minimal frustration.
15 min	15 min	10 min	Wrap-up and Discussion	Allow the student extra time to process information and participate at their own pace. Offer prompts and clarification as needed.
5 min	15 min	Homework		Provide alternative homework options, such as simplified worksheets or verbal responses, to accommodate the student's needs.
				Evaluate completed assignments or responses based on individualized expectations.





a lesson plan on the circulatory system for 13 year old boys



can you present this in table form. the column headings are : time, activity, differentiation and assessment



I have a student in the class with MGLD include strategies to support them in the differentiation section of the tabulated plan



can you suggest ways to simplify the explanations as outlined in the plan?



ChatGPT

2. Simplify Terminology:

- Instead of using complex medical terms, use everyday language. For example,

8. Repeat and Reinforce:

- Repeat important concepts frequently throughout the lesson to reinforce understanding.

3. Vis

- Use simple, consistent language and repetition to help the student remember key points.

9. Provide Visual Cues:

- Use visual cues such as arrows, colors, and simple icons to represent the flow of blood and its oxygen content in diagrams and presentations.

10. Offer Hands-On Activities:

- Engage the student in hands-on activities, like the pulse-checking exercise, to make abstract concepts more concrete and relatable.



a lesson plan on the circulatory system for 13 year old boys



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can you suggest ways to simplify the explanations as outlined in the plan?



can you provide me with the worksheet



Heart Diagram

3. Fill in the Blank:

Complete the sentences with the correct words from the word bank.

Word Bank:

- Blood
- Oxygen
- Veins
- Lungs
- Capillaries

4. Short Answer:

Explain in your own words why the circulatory system is essential for our bodies.

a) _____

body.

b) _____

c) _____

dioxide

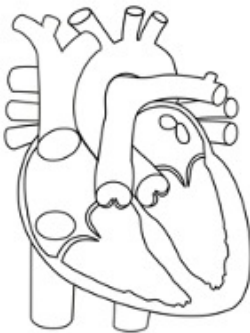
d) Blood

The Circulatory System

Label the Parts of the Heart:

Use the word bank to label the parts of the heart in the diagram below.

Word Bank:
Aorta
Left Atrium
Right Atrium
Left Ventricle
Right Ventricle



Label the part that pumps oxygen-rich blood to the body: _____

Label the part that receives oxygen-rich blood from the lungs: _____

Label the part that receives oxygen-poor blood from the body: _____

Label the part that pumps oxygen-poor blood to the lungs: _____

Label the largest blood vessel leaving the heart: _____

True or False:

Circle "True" if the statement is correct and "False" if it is not.

- The heart is a muscle that pumps blood. (True / False)
- Arteries carry oxygen-rich blood away from the heart. (True / False)
- Blood vessels called capillaries are tiny and connect arteries to veins. (True / False)
- The heart has three chambers: two atria and one ventricle. (True / False)

Fill in the Blank:

Complete the sentences with the correct words.

Word Bank:

Blood	Oxygen
Lungs	Capillaries

- _____ is pumped by the heart to deliver nutrients and _____ to the body.
- _____ are blood vessels that carry blood back to the heart.
- _____ are tiny blood vessels where the exchange of oxygen and carbon dioxide takes place.
- Blood travels to the _____ to get oxygen and remove carbon dioxide.

Short Answer

Explain in your own words why the circulatory system is essential for our bodies.

Under 5 mins



a lesson plan on the circulatory system for 13 year old boys



can you present this in table form. the column headings are : time, activity, differentiation and assessment



I have a student in the class with MGLD include strategies to support them in the differentiation section of the tabulated plan



can you suggest ways to simplify the explanations as outlined in the plan?



can you provide me with the worksheet



my students are massive football fans . can you redesign the lesson to make it football related.

Football-Themed Lesson Plan: The Circulatory System

		Differentiation for		
Time	25-40 mins	Practice Drill: Interactive game where students pass a ball while tracing the path of blood through the body.	Give the MGLD student a clearly defined role in the game and provide additional guidance as	Assess participation and understanding through
0-10 mins				
	40-50 mins	Penalty Shootout Quiz: A quiz formatted like a penalty shootout, where each correct answer scores a 'goal'.	Offer a simplified version of the quiz with multiple-choice questions for the MGLD student.	Grade the quiz to assess the understanding of key concepts.
10-20 mins				

This football-themed lesson plan aims to make learning about the circulatory system more relatable and engaging for young football fans, while also catering to the needs of a student with MGLD.



a lesson plan on the circulatory system for 13 year old boys



can you present this in table form. the column headings are : time, activity, differentiation and assessment



I have a student in the class with MGLD include strategies to support them in the differentiation section of the tabulated plan



can you suggest ways to simplify the explanations as outlined in the plan?



can you provide me with the worksheet



I have a student in the class who is "gifted" how can I cater to their needs



ChatGPT

To challenge a gifted student in the class while teaching about the circulatory system with a

footba

Here a

1. **Rese**

spec

regul

findin

2. **Critic**

relate

playi

to dif

expla

3. **Hands-On Experimentation:** Offer the student the opportunity to design and conduct a hands-on

experiment related to the circulatory system. For instance, they could investigate the effects of

different physic

heart rate monit

4. **Creative Projec**

system and foot

incorporates sc

circulatory syste

football teamwo

5. **Deeper Discuss**

the circulatory s

cardiovascular c

medicine. Allow

6. **Collaborative Learning:** Pair the gifted student with peers who share their enthusiasm for

learning and challenge them to collaborate on projects or problem-solving tasks related to the

circulatory system and football. This allows them to exchange ideas, debate concepts, and learn

from one another's strengths.

7. **Independent Study Opportunities:** Provide the gifted student with access to additional

resources, such as advanced textbooks, scientific journals, online courses, or educational

websites, that allow them to explore topics related to the circulatory system at their own pace

and depth.

8. **Feedback and Extension Tasks:** Offer constructive feedback on the student's work and

encourage them to further develop their ideas or explore related concepts through extension

tasks or independent inquiry projects.

By incorporating these strategies, you can effectively challenge the gifted student in your class while fostering their curiosity and passion for learning about the circulatory system within the context of football.



You give



Chat
Cert
less

1. Analyze

- Analyze the
- Challenge the
- Engage the

2. Predictive Modeling and Data Analysis:

- Provide the student with data on professional football players' heart rates during matches or training sessions.

5. Predictive Modeling and Data Analysis:

- Provide the student with data on professional football players' heart rates during matches or training sessions.
- Ask them to analyze the data, identify patterns, and make predictions about how different factors (e.g., intensity of play, player position) may influence heart rate variability and overall cardiovascular health.

3. Evaluate

- Present

6. Design an Optimal Training Program:

- Challenge the student to design a comprehensive training program for a professional football team.

4. Debate

- Engage

7. Predictive

- Have the

8. Research Emerging Technologies in Sports Science:

- Task the student with researching and evaluating emerging technologies in sports science that aim to improve athletes' cardiovascular performance or monitor their cardiovascular health.
- Have them assess the potential benefits, limitations, and ethical implications of these technologies within the context of professional football.

- Encourage

7. Predictive

- Provide
- Ask the

These critical thinking tasks will challenge the gifted student to apply their knowledge of the circulatory system to analyze complex issues and make informed decisions within the context of football.



ChatGPT

Understood! Here are critical thinking tasks that focus solely on the circulatory system without reference to football:

- 1. Analyzing the Impact of Lifestyle Factors:**
 - Provide students with a list of lifestyle factors (e.g., diet, exercise, stress, smoking) and ask them to analyze how each factor affects the circulatory system.
 - Ask them to identify the most significant factors and explain the underlying mechanisms.
- 2. Comparing and Contrasting the Circulatory System:**
 - Present students with two different circulatory systems (e.g., open vs. closed, single vs. double loop) and ask them to compare and contrast their functions and structures.
 - Challenge them to identify the advantages and disadvantages of each system.
- 3. Ethical Dilemmas in Organ Transplantation:**
 - Engage students in a discussion about the ethical implications of organ transplantation, focusing on issues like organ allocation, donor consent, and the potential for organ trafficking.
 - Have them identify the ethical dilemmas and propose solutions.
- 4. Generating Hypotheses:**
 - Present students with a scenario (e.g., a patient with a heart condition) and ask them to generate hypotheses about the underlying cause and potential treatments.
 - Challenge them to design experiments to test their hypotheses.
- 5. Designing Cardiovascular Research Studies:**
 - Task students with designing a research study to investigate a specific aspect of the circulatory system (e.g., the effect of exercise on blood pressure).
 - Have them identify the research question, hypothesis, variables, and methods.
- 6. Exploring the Role of the Heart:**
 - Present students with a diagram of the heart and ask them to explain the role of each chamber and valve.
 - Challenge them to identify the consequences of a malfunctioning heart.
- 7. Debating Healthcare Policy:**
 - Engage the student in a debate about healthcare policy issues related to cardiovascular health, such as healthcare access, insurance coverage for preventive care, and public health interventions for cardiovascular disease prevention.
 - Have them critically evaluate different policy proposals and advocate for evidence-based approaches to promoting circulatory system health and reducing health disparities.
- 8. Predictive Modeling and Data Analysis:**
 - Provide the student with datasets related to circulatory system function, such as blood pressure measurements, heart rate variability data, or lipid profiles.
 - Ask them to analyze the data, identify patterns or trends, and draw conclusions about factors influencing cardiovascular health and disease risk.

These critical thinking tasks will challenge the gifted student to apply their knowledge of the circulatory system to analyze complex issues, make informed decisions, and explore cutting-edge research in cardiovascular science.



ChatGPT

Certainly!

disorders,

Worksheets

Case Studies

1. Patient Profile:

- Name: Sarah
- Age: 55
- Occupation: Office worker
- Medical History: Hypertension, high cholesterol

2. Case Details:

Sarah visits her primary care physician reporting symptoms of chest pain, shortness of breath, and fatigue. She has a long history of hypertension and high cholesterol, and has been unable to exercise, maintain a healthy diet, or control her blood pressure. The physician considers

Case Study 2: Atherosclerosis

1. Patient Profile:

- Name: John
- Age: 65
- Occupation: Retired Construction Worker
- Medical History: Former smoker, high cholesterol

2. Case Details:

John presents to the emergency department with severe chest pain, experiencing intermittent chest pain over the past few weeks, exacerbated by physical exertion. An electrocardiogram (ECG) shows ST-segment depression. Subsequent investigation reveals a diagnosis of atherosclerosis. John undergoes urgent coronary artery bypass grafting (CABG) surgery to

Questions:

- Explain how atherosclerosis develops and its impact on the cardiovascular system.
- Discuss potential lifestyle modifications that can help manage atherosclerosis.
- Describe the purpose and effectiveness of CABG surgery in treating atherosclerosis.

Case Study 3: Congestive Heart Failure

1. Patient Profile:

- Name: David
- Age: 70
- Occupation: Retired Teacher
- Medical History: History of myocardial infarction (heart attack), diabetes mellitus, obesity

2. Case Details:

David presents to the cardiology clinic with complaints of increasing fatigue, shortness of breath, and swelling in his lower extremities. He reports difficulty performing routine activities and waking up at night due to breathlessness. Physical examination reveals elevated jugular venous pressure, bilateral lower limb edema, and bibasilar crackles on auscultation. Further assessment, including echocardiography and cardiac biomarker testing, confirms a diagnosis of congestive heart failure (CHF) secondary to left ventricular dysfunction. David's treatment plan includes diuretics, angiotensin-converting enzyme (ACE) inhibitors, beta-blockers, and lifestyle modifications to manage his symptoms and slow disease progression.

Questions:

- Explain the pathophysiology of congestive heart failure (CHF) in David's case.
- Discuss the rationale behind David's treatment plan, including the use of diuretics, ACE inhibitors, and beta-blockers.
- Propose additional lifestyle modifications that could help manage David's congestive heart failure and improve his quality of life.





create a lesson plan for a jc business class on supply and demand. research the Taylor Swift Eras tour - the master fiasco and use that in the lesson plan

GPT Plus



THE TUFTS DAILY



FEATURES

Taylor Swift's 'The Eras Tour' helps critique Ticketmaster's role in the music industry

Fans and professors discuss the impact of the internet on artists, concerts and the economy.



TRENDING

Op-ed: It's time to acknowledge antisemitism on campus

By [Elijah Fraiman](#) and [Micah Gritz](#) | October 30

Students protest Tufts' Israeli investments during TCU meeting with University President Kumar

By [Daniel Vos](#) | November 7

Rick Caraviello is challenging incumbent Breanna Lungo-Koehn in upcoming municipal election

By [Carly Cohen](#) | November 6

Op-ed: Tufts' campus climate is unsustainable for Jewish and pro-Israel students

By [Tufts Friends of Israel](#) | November 8

Elite universities don't condemn hate speech and face the financial consequences

By [Kevin Golub](#) | November 3



Tips for lesson planning



Provide the learning outcome

Include information about student cohort (age/needs/interests)

Provide information about formatting eg. "in table form, the columns are...."

Don't be afraid to re-prompt and reply back to ChatGPT

Remember: you are the expert! Always check what ChatGPT is outputting before copying/pasting



Custom Resources



Resource
Creation



Generate a list of key words associated with the following learning outcome
"Students should be able to describe the structure, function, and interactions of the organs of the respiratory systems"



ChatGPT

- Cert
struc
follo
1. **Respiratory System:** The entire system of organs and structures involved in the process of breathing.
 2. **Lungs:** Two large organs in the chest cavity that are responsible for gas exchange.
 3. **Bronchi:** The airways that branch out from the trachea to the lungs.
 4. **Alveoli:** Small, sac-like structures at the end of the bronchi where gas exchange occurs.
 5. **Trachea:** The windpipe; connects the larynx to the bronchi.
 6. **Diaphragm:** The main muscle used in breathing.
 7. **Thoracic Cavity:** The upper part of the chest cavity containing the lungs and heart.
 8. **Respiratory Tract:** The pathway through which air enters and leaves the body.
 9. **Mucus:** Substance produced to moisten and protect the respiratory tract.
 10. **Gas Exchange:** The primary function of the respiratory system, involving the exchange of oxygen and carbon dioxide.
 11. **Diaphragm:** The main muscle used in breathing.
 12. **Respiration:** The process of breathing and gas exchange.
 13. **Intercostal Muscles:** Muscles between the ribs that assist in the breathing process.
 14. **Pleura:** Membranes surrounding the lungs and lining the chest cavity.
 15. **Cilia:** Small hair-like structures that trap and move particles out of the respiratory tract.
 16. **Mucus:** Substance produced to moisten and protect the respiratory tract.
 17. **Gas Exchange:** The primary function of the respiratory system, involving the exchange of oxygen and carbon dioxide.
 18. **Respiration:** The process of breathing and gas exchange.
 19. **Intercostal Muscles:** Muscles between the ribs that assist in the breathing process.
 20. **Pleura:** Membranes surrounding the lungs and lining the chest cavity.



create a word bank of the key words. group the words into 3 categories "level 1", "level 2" and "level 3" based on complexity



ChatGPT

Cl **Level 2:** (Intermediate Concepts)

le **Level 3:** (Advanced Concepts)

- Br
- Lt • **Alv** • **Cilia:** Small hair-like structures that trap and move particles out of the respiratory tract.
- F • **Tra** • **Mucus:** Substance produced to moisten and protect the respiratory tract.
- e • L • **Dia** • **Gas Exchange:** The primary function of the respiratory system, involving the exchange of oxygen and carbon dioxide.
- li • **Na**
- E • **Phi** • **Respiration:** The process of breathing and gas exchange.
- C • **Lai** • **Intercostal Muscles:** Muscles between the ribs that assist in the breathing process.
- C • **Epi** • **Pleura:** Membranes surrounding the lungs and lining the chest cavity.



create three columns with the headings level 1, 2, 3 and just list the words underneath without definitions

Level 1	Level 2	Level 3
Respiratory System	Bronchi	Cilia
Lungs	Alveoli	Mucus
Inhalation	Trachea	Gas Exchange
Exhalation	Diaphragm	Respiration
Oxygen (O2)	Nasal Cavity	Intercostal Muscles
Carbon Dioxide (CO2)	Pharynx	Pleura
	Larynx	
	Epiglottis	



create a fill in the blanks paragraph using the above word bank above on the process of breathing



ChatGPT

Certainly! Here's a fill-in-the-blanks paragraph using the word bank provided:

"The _____ (Level 1) is responsible for the process of _____ (Level 3), which involves taking in _____ (Level 1) and expelling _____ (Level 1). When we inhale, air enters through the _____ (Level 2) and passes down the _____ (Level 2) into the _____ (Level 1). In the _____ (Level 2), oxygen is absorbed into the blood, and _____ (Level 1) is released as a waste product. The _____ (Level 2) plays a crucial role in helping us breathe by moving up and down to create space for the lungs to expand and contract. The _____ (Level 3) between the ribs also assist in this process. Tiny _____ (Level 3) and _____ (Level 3) in the respiratory tract help to filter and protect the lungs. This entire process is essential for maintaining the _____ (Level 3) of oxygen and _____ (Level 1) necessary for life."



write a lab report at the reading level of a 13 year old on an experiment where you completed jumping jacks and recorded your bpm after every 10 jumping jacks. You measured the bpm for 30 seconds using a stopwatch and multiplied by two. Use uk spelling english



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1. Sit down
2. Measure
beats for
(bpm).
3. Stand up
4. Immedia
5. Record th
6. Repeat s

Results:

Number o

0 (Before s

10

20

30

40

50

Discussion:

The results show a clear pattern: as the number of jumping jacks increased, so did the heart rate. This supports the idea that our heart works harder during exercise.

The increase in heart rate is due to the body's need for more oxygen when exercising.

Conclusion:

The experiment confirms the hypothesis: doing jumping jacks, or any form of exercise, increases the heart rate. It's essential to understand how our body reacts to physical activity and the importance of keeping our heart healthy.



Result

Title:
The Impact of Jumping Jacks on Heart Rate

Objective:
To investigate how performing jumping jacks affects the heart rate.

Introduction:
The heart is a vital organ that pumps blood throughout our body. When we exercise, our muscles need more oxygen, and the heart works harder to supply it. This experiment aims to see how the heart rate changes after doing jumping jacks.

Hypothesis:
If I do more jumping jacks, then my heart rate will increase.

Materials:
Stopwatch (or a mobile phone with a timer)
A spacious area for doing jumping jacks
A notebook and pen for recording results

Procedure:

1. Sit down and relax for about 5 minutes to ensure a resting state.
2. Measure the resting heart rate by placing two fingers on the wrist, counting the beats for 30 seconds, and then multiplying by two to get the beats per minute (bpm).
3. Stand up and perform 10 jumping jacks.
4. Immediately after, measure the heart rate again using the same method.
5. Record the number of beats.
6. Repeat steps 3-5 until 50 jumping jacks have been completed in total.

Results:

Number of Jumping Jacks	Heart Rate (bpm)
0 (Before starting)	
10	70
20	85
30	96
40	106
50	115
	125

Discussion:
The results show a clear pattern: as the number of jumping jacks increased, so did the heart rate. This supports the idea that our heart works harder during exercise. The increase in heart rate is due to the body's need for more oxygen when exercising.

Conclusion:
The experiment confirms the hypothesis: doing jumping jacks, or any form of exercise, increases the heart rate. It's essential to understand how our body reacts to physical activity and the importance of keeping our heart healthy.



remove key words and replace with _____, include a key word bank at the bottom, ensure the word bank is jumbled



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Introduction:

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body.

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4. Imr
5. Rec
6. Rep

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Discussion:

The results show a clear pattern: as the number of _____
the _____. This supports the idea that our _____
during _____. The increase in _____ is c
more _____ when _____.

Conclusion:

The experiment confirms the hypothesis: doing _____
_____, increases the _____. It's essential
body reacts to physical activity and the importance of keep
healthy.

Keyword Bank:

- exercise
- heart rate
- oxygen
- heart
- blood
- exercise
- stopwatch
- jumping jacks
- notebook
- physical activity



Result

Title:
The Impact of _____ on _____

Objective:
To investigate how performing _____ affects the _____.

Introduction:
The _____ is a vital organ that pumps _____ throughout our body. When we _____, and _____, our muscles need more _____, and the _____ works harder to supply it. This experiment aims to see how the _____ changes after doing _____.

Hypothesis:
If I do more _____, then my _____ will increase.

Materials:
_____ (or a mobile phone with a timer)
A spacious area for doing _____
A _____ and pen for recording results

- Procedure:**
1. Sit down and relax for about 5 minutes to ensure a resting state.
 2. Measure the resting _____ by placing two fingers on the wrist, counting the beats for 30 seconds, and then multiplying by two to get the beats per minute (bpm).
 3. Stand up and perform 10 _____.
 4. Immediately after, measure the _____ again using the same method.
 5. Record the number of beats.

Results:

Number of _____	_____ (bpm)
0 (Before starting)	
10	
20	70
30	85
40	95
50	105
	115
	125

Discussion:
The results show a clear pattern: as the number of _____ increased, so did the _____, which supports the idea that our _____ works harder during physical activity. The increase in _____ is due to the body's need for more _____ when _____.

Conclusion:
The experiment confirms the hypothesis: doing _____ increases the _____, which is essential to understand how our body reacts to physical activity and the importance of keeping our _____ healthy.

Recommendations for Further Study:
It would be interesting to compare the results with other forms of _____, like running or skipping, to see which one has the most significant impact on _____.

Lab Repo

Title:

Yeast Experiment

Hypothesis:

Yeast makes balloons get big.

Materials:

Yeast
Glucose
Balloons
Flasks

Procedure:

We put glucose and yeast in a flask and flask with a balloon on top. We waited 1

Results:

The balloon with the yeast got big. The

Discussion:

The yeast made the balloon get big bec because it didn't have yeast. Yeast need

Conclusion:

Yeast can make balloons inflate when it inflate because it didn't have yeast.

Lab Rep

Title:

Yeast Respiration Experiment

Hypothesis

If yeast undergoes respiration when containing the yeast and glucose sol

Materials:

1. 2 conical flasks
2. Glucose solution
3. Yeast
4. 2 balloons
5. Measuring spoons and cups
6. Stopwatch or timer

Procedure:

1. Measure and pour an equal amot
2. Add yeast to one of the flasks, en
3. Stretch the opening of the balloo conical flask, ensuring a tight seal.
4. Leave the flasks in a warm place f
5. Observe any changes in the ballo

Results:

The balloon on the flask containing production of gas. The balloon on t all.

Discussion:

The inflation of the balloon in the fl respiration, producing gas as a bypr without yeast did not produce any g undergo respiration. This experimer respiration and produces gas in the

Conclusion:

The experiment confirms that yeast solution. The gas produced during tl without yeast did not show any sign was not responsible for the gas proc

Lab Report

Title:

Experiment on Yeast and Balloons

Hypothesis:

If yeast is added to glucose, it will make a ball

Materials:

Yeast
Glucose solution
2 conical flasks
2 balloons

Procedure:

Put glucose solution in two flasks.

Add yeast to one flask.

Put balloons on the tops of the flasks.

Wait and see if the balloons inflate.

Results:

The balloon on the flask with yeast inflated. T

Discussion:

The yeast seemed to create a gas when it was inflated. This might be because of respiration energy and produces gas as a result. The flask didn't have anything to turn the glucose into

Conclusion:

The experiment shows that yeast might prod balloon inflated. More tests might be needed

Lab Report – Student 4

Title:

The Balloon and Yeast Adventure

Hypothesis:

Yeast will probably do something interesting to balloons because it's a living thing and living things do interesting stuff with food like glucose.

Materials:

Yeast
Glucose solution
Balloons
Flasks

Procedure:

We started by getting all our materials together and setting them up on the table. We had a fun time blowing up the balloons to make sure they didn't have any holes and could inflate properly. We then put the glucose solution into the flasks. We were very excited to see what would happen when we added the yeast. We put the yeast into one of the flasks and quickly put the balloon on top. We did the same for the other flask without yeast. We then waited and occasionally checked the balloons to see if they were doing anything. We also took some pictures for fun.

Results:

The balloon with the yeast did get bigger! It was so cool to see it slowly inflate. The other balloon did nothing at all. It was kind of boring to watch the balloons and wait, but we talked and joked around to pass the time.

Discussion:

Yeast is a living thing and it needs to eat to stay alive, just like us. So, when we gave it some glucose, it probably ate it and made a gas that made the balloon inflate. The other balloon didn't do anything because it didn't have yeast, and therefore, it didn't have anything to turn the glucose into gas. We think that if we used different types of sugar, the yeast might make the balloon inflate faster or slower. We also wonder if using old yeast would make a difference in the experiment.

Conclusion:

Yeast can make balloons inflate when it eats glucose because it produces a gas. This experiment was fun and we learned that yeast can make gas. In the future, we might try this experiment with different sugars or different types of yeast to see what happens.



Create a reading comprehension on the age of exploration for a student whose reading age is 8

The Age of Exploration: A Time of Discovery

1. Why Explore?

New Discoveries:

These explorers

- The people who lived
- These discoveries
- They hoped to find gold
- Some wanted to spread

Questions:

1. What was the Age of Exploration?
2. Name two explorers and what they discovered.
3. Why did explorers go on their journeys?
4. What were some things they found?



Adapt the same content for a gifted student who has a special interest in history. They are 14 years old.

The **Pioneers**

2. **Val**

Extended Questions:

1. How did technological advancements contribute to the Age of Exploration? Give examples.
2. Compare and contrast the voyages of Columbus and Magellan in terms of their goals and outcomes.
3. Discuss the ethical implications of the Age of Exploration, considering both its contributions to global knowledge and its role in colonialism.
4. Analyze the long-term global impacts of the Columbian Exchange, citing specific examples of how it affected different regions.
5. Reflect on how the Age of Exploration shaped modern perceptions of globalization and cultural exchange.





Create a reading comprehension based on Taylor Swift for a student who has a reading age of 8

Taylor Swift



Taylor Swift is a very famous singer and songwriter. She was born on December 13, 1989, in Pennsylvania. When she was a little girl, she loved to sing and write songs. She learned to play the guitar when she was only 12 years old. Taylor moved to Nashville, Tennessee, when she was 14 to follow her dream of becoming a country music star.

Taylor Swift's first album came out when she was 16. It was called "Taylor Swift," just like her name. One of her most popular songs from this album is "Our Song." She writes songs about her own life and feelings. Many people like her music because they can relate to the stories she tells in her songs.

Taylor Swift has won many awards for her music. She has won 11 Grammy Awards, which are very important in the music world. She is known for her kind heart and often helps people in need. She loves cats and has three of them named Meredith, Olivia, and Benjamin. Taylor Swift is a great role model for young people who want to follow their dreams.

Where was Taylor Swift born?

She was born in Pennsylvania.

How old was Taylor when she learned to play the guitar?

She was 12 years old when she learned to play the guitar.

What is the name of Taylor Swift's first album?

Her first album is called Taylor Swift.

Why do many people like Taylor Swift's music?

So many people like her music because they can relate to it

How many cats does Taylor Swift have and what are their names?

She has 3 cats their names are Olivia, Benjamin, Meredith.



Create a MCQ quiz consisting of 5 questions that involve solving linear equations. The questions should get more difficult as they progress



ChatGPT

Sure, I can create a multiple-choice quiz with five questions involving solving linear

Question 4

Solve

- A)
- B)
- C)
- D)

Question 5

Solve the equation: $\frac{5x+1}{2} = \frac{3x-4}{4} + 3$

- A) $x = -2$
- B) $x = 0$
- C) $x = 4$
- D) $x = 8$



Create a Diagnostic Quiz based on algebraic fractions. The questions and answers should be designed to catch common errors and misconceptions

ChatGPT

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• Inc

• Incorrect Answer B: 2

variable simplification)

• Incorrect Answer C: $\frac{6x^2}{3x} - \frac{9x}{3x} = 2x - 3$

Question 2: Addition of Algebraic Fractions

Question: Question 3: Multiplication of Algebraic Fractions

Correct Answer: Question 4: Division of Algebraic Fractions

• Incorrect

• Incorrect

• Incorrect with diffe

• Incorrect

Correct Answer

• Incorrect

• Incorrect

• Incorrect and de

• Incorrect

• Incorrect

• Incorrect

Question 5: Complex Fraction Operations

Question: Simplify the complex fraction $\frac{\frac{1}{x} + \frac{1}{y}}{\frac{1}{x} - \frac{1}{y}}$.

Correct Answer: $\frac{x+y}{x-y}$

• Incorrect Answer A: 1 (Error: Incorrect assumption that numerator and denominator will cancel out)

• Incorrect Answer B: $\frac{2}{x+y}$ (Error: Incorrect simplification of the complex fraction)

• Incorrect Answer C: $\frac{x+y}{2xy}$ (Error: Misapplication of addition and subtraction rules for algebraic fractions)



Create a NYT times connections puzzle based on the LC Chemistry Histroy of the Atom Unit



You



You
is there 4 s



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ChatGPT
Yes, there
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Scientists:

1. Albert Ein
2. Niels Boh
3. Marie Cur
4. Enrico Fe



You



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ChatGPT
There are ma
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1. **Isaac Newton**
on classical
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2. **James Prescott Joule**
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3. **Alessandro V**
force, name
3. **Ernest Rutherford**
chemical bat
4. **André-Marie Ampère**
Marie Ampère
electric char



You
Irish Scientists



ChatGPT
Focusing on Irish scientists, Ireland has produced many notable scientists who have made significant contributions across various fields. While these scientists may not have worked directly under Ernest Rutherford, their work and achievements are noteworthy in the context of discussing influential scientists from Ireland. Here are a few prominent Irish scientists:

1. **John Tyndall** (1820–1893) - A prominent 19th-century physicist, Tyndall made significant contributions to the study of physics, particularly in the fields of light and sound. He is best known for his discovery of the Tyndall effect, which explains why the sky is blue, and for his work on the greenhouse effect.
2. **William Thomson, Lord Kelvin** (1824–1907) - Born in Belfast, Lord Kelvin is one of the most influential figures in the history of physics. He is renowned for his work in thermodynamics and for developing the Kelvin scale of absolute temperature. His contributions to physics, including the formulation of the first and second laws of thermodynamics, have left a lasting legacy.
3. **Ernest Walton** (1903–1995) - A physicist from Dungarvan, Walton, along with John Cockcroft, was awarded the Nobel Prize in Physics in 1951 for their work on the transmutation of atomic nuclei by artificially accelerated atomic particles. This made Walton the first person from Ireland to receive a Nobel Prize in Physics.
4. **George Johnstone Stoney** (1826–1911) - A physicist from County Offaly, Stoney made



I want to play a game with students called "um actually" where I give them quotes from Hamlet that have a minor change to the quote. students have to identify the error in the quote. can you help me make 3 quotes that are altered in a believable way?

Invite students to compare the altered quote with the original in terms of tone, meaning, and thematic implications. They can evaluate how the change affects the perception of the scene or character and discuss the importance of word choice in Shakespeare's works.

"The lady doth complain too much, methinks."

Organize a debate where students argue the impact of the altered quote versus the original on the play's interpretation. This could involve defending the importance of the original wording in understanding Shakespeare's intent and the play's impact on audiences.



Create an organic chemistry pre-requisite test. The test should be 10 questions long and assess a range of knowledge and skills from the 1c course

Prerequisite Test for Leaving Cert Organic Chemistry

Question 3: Chemical Bonding

3. Differentiate between ionic and covalent bonding.

6. Define pH and describe the pH scale, giving examples of acidic, neutral, and basic substances.

Question 4: Conservation of Mass

4. Calculate the mass of products in a chemical reaction.

Question 9: Chemical Reactions

9. Describe the law of conservation of mass and its importance in chemical reactions.

Question 5: Balancing Equations

5. Balance the following chemical equation.

Question 10: Basic Organic Concepts

10. What is a hydrocarbon and give an example of a simple hydrocarbon.

ChatGPT

Coloring Book H...

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male Scientists Lab Coloring Pa

rie Curie Coloring Page

ate Female Scientist Coloring

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ift Forces Physics Lesson

idle: Crystal Structure Study

riodic Table Scientist Puzzles

ence Week Workshop Ideas

ate Science Week Escape Roo

hemy's Contribution to Scienc

hemy: Historical Contributions

Shannon Ahern

ChatGPT 4



ChatGPT

Certainly, here are the keywords and their definitions separated by a comma:

1. **Atom**, The basic unit of a chemical element, consisting of a nucleus and electrons.
2. **Nucleus**, The central core of an atom containing protons and usually neutrons.
3. **Protons**, Subatomic particles with a positive electric charge found in the nucleus of an atom.
4. **Neutrons**, Subatomic particles without an electric charge, found in the nucleus of an atom.
5. **Electrons**, Subatomic particles with a negative charge, orbiting the nucleus of an atom.
6. **Mass of protons**, The amount of matter contained in a proton, approximately 1 atomic mass unit (amu).
7. **Mass of neutrons**, The amount of matter in a neutron, slightly more than a proton at approximately 1 amu.
8. **Mass of electrons**, The amount of matter in an electron, significantly less than protons or neutrons, approximately 1/1836 of an amu.
9. **Charge of protons**, The electric charge of a proton, which is positive and has a magnitude of 1 elementary charge.
10. **Charge of neutrons**, Neutrons have no electric charge, they are neutral.
11. **Charge of electrons**, The electric charge of an electron, which is negative and equal in magnitude to the charge of a proton.



One-click prompts Web access





Write a poem about cats in the style of...

Guess the Poet

Poet 1 – Adrienne Rich

Certainly! Here are a few examples of how I tried to incorporate features of Adrienne Rich's style into the poem:

1. Focusing on political and social themes: Rich was known for her writing about feminist and social justice issues, and in this poem I sought to touch on the theme of humanity's relationship with the natural world, which is a topic she explored in her work. By using the cat as a symbol of the wildness that we've lost, and highlighting the tension between our desire to control and domesticate nature and our yearning for freedom and beauty, I hoped to convey a sense of the larger societal issues that Rich was known for exploring in her poetry.
2. Using metaphor and imagery: Rich often used metaphor and imagery to explore complex themes, and in this poem I tried to emulate that style by using the image of the cat to convey a sense of mystery and wildness, and to evoke a mood of longing and loss. By describing the cat's "sharp intelligence" and "wildness we seek to disown", I hoped to create a sense of tension between our desire to control and domesticate nature, and the sense of awe and wonder that it inspires.
3. Using rhythm and cadence: Rich's poetry is known for its distinctive rhythm and cadence, which I attempted to emulate in this poem through the use of enjambment and repetition. For example, the repeated use of the phrase "creature of the night" creates a sense of musicality and repetition that is reminiscent of Rich's style, and the enjambment in lines like "Left of the wildness, the untamed soul, / That we've lost in our quest to be whole" creates a sense of fluidity and movement that is also characteristic of her work.

Guess the Poet

Poet 2

The cat, both fierce and tender...

Poet 2 – Derek Mahon

In this rewritten poem about cats, I attempted to emulate Derek Mahon's style through a few key features that are characteristic of his poetry:

1. Use of paradox and contrast: Mahon's poetry often employs paradox and contrast to explore complex ideas, and in this rewritten poem, I used the phrase "a creature of wildness and softness" to create a similar sense of tension and contradiction. This mirrors Mahon's own use of contrast to convey the complexity of human experience.
2. Use of vivid imagery: Mahon's poetry is also known for its striking imagery, which I attempted to emulate in this poem by describing the cat's movements as a "subtle thunder" and revealing "a world of wonder." These images help to create a mystery and intrigue, and capture the awe-inspiring beauty present in Mahon's work.
3. Focus on the transcendent and the mysterious: Finally, Mahon often focuses on the transcendent and the mysterious, and in this rewritten poem, I attempted to capture that same sense of wonder and awe. By describing the cat as a "symbol of all that's free, and end," and as a "mystery that we will never fully apprehend," I create a sense of the transcendent and the unknowable that is present in Mahon's poetry.

Overall, through these features, I attempted to emulate Derek Mahon's style in this rewritten poem about cats.

Guess the Poet

Poet 3

a creature of the farm,
through the fields, without alarm,
gleam, like a...

Poet 3 - Patrick Kavanagh

Here are some of the features of the poem that are Patrick Kavanagh-esque: Celebration of the rural landscape: Patrick Kavanagh's poetry is known for its focus on the beauty of the rural landscape, and this poem incorporates that same focus by describing the cat as a "creature of the farm" and emphasizing her connection to the land and soil.

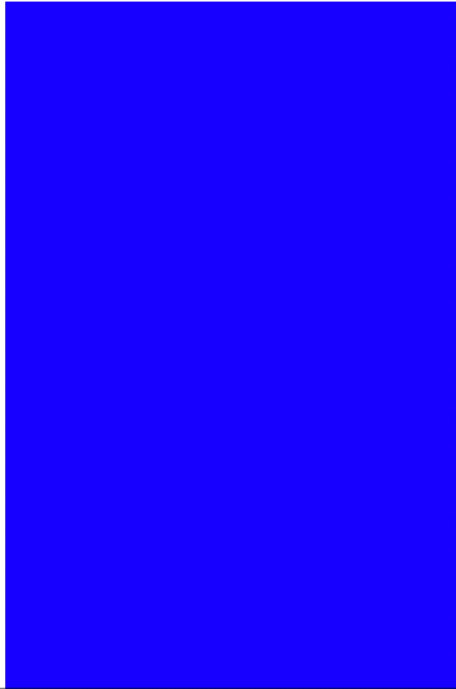
Use of simple, direct language: Kavanagh's poetry is also known for its use of simple, direct language, which is a feature that this poem also incorporates. For example, the phrase "A reminder of the joys that we can't spoil" is straightforward and unadorned, conveying a sense of clarity and immediacy that is characteristic of Kavanagh's style.

Celebration of the ordinary: Kavanagh's poetry often finds beauty and transcendence in the ordinary, and this poem also emphasizes the beauty of the everyday by describing the cat as a "symbol of a life that's unspoiled" and "reminder of the simple things that please."

Overall, this poem attempts to capture the themes and style of Patrick Kavanagh's poetry, particularly his celebration of the natural world, use of simple language, and celebration of the ordinary.



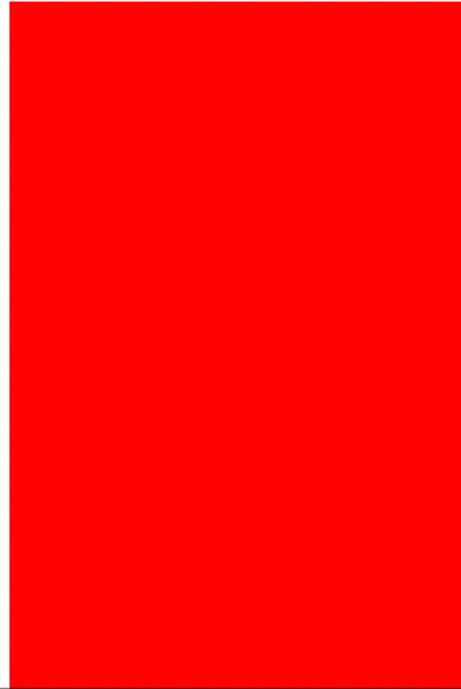
Write the html code for...



Orange

Score: 0

Skip





Create a Minecraft style diagram of a volcano





Create a Roblox version of the Boston Tea Party

GPT Plus





Create a Roblox version of ancient Rome





Create a van gogh painting based on this poem ... (copied and pasted poem)

GPT Plus





Create a create a marvel movie style poster of all the scientists who contributed to the discovery of the atom. include: thomson, Bohr, Rutherford, Chadwick





Create an image of DaVinci meeting Marie Curie



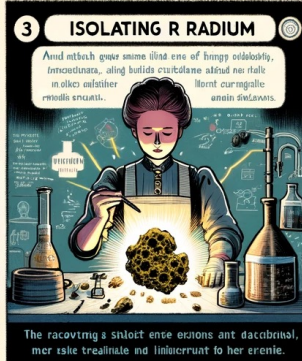
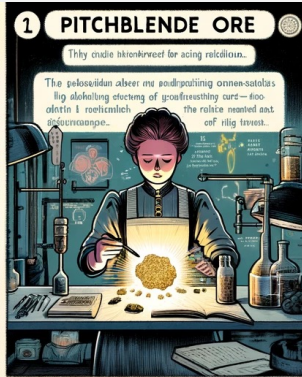
The limit is
your
creativity!



GPT Plus

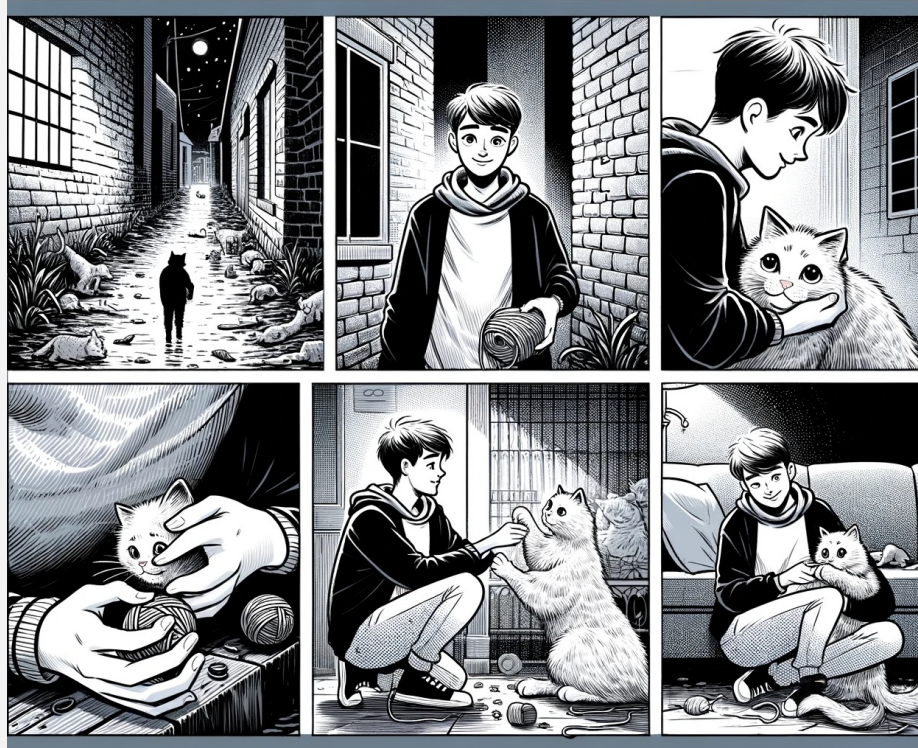


Create a comic strip of Marie Curie discovering Radium





Create a black and white comic strip of a teenager adopting a stray cat





Create a black and white comic strip of Lewis Hamilton Winning the F1 World Championship





General Tips for using ChatGPT

01

Treat it Like A Colleague

Speak to ChatGPT like you would a colleague you are asking for advice.



02

Be Clear!

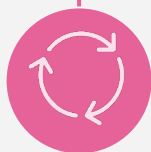
Be clear. ChatGPT will do exactly what you ask – to its detriment at times!



03

Reprompt

Don't be afraid to respond and reprompt or ask it for its reasoning



04

Give Context

The more keywords the better it will be able to predict!



05

Always Review

ChatGPT is not the expert – you are!





Ai & Education

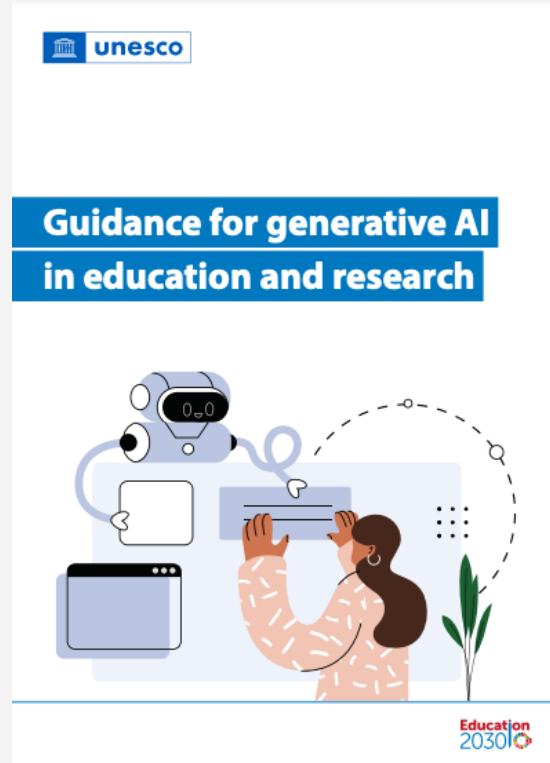


Ethics & Ai

🔍 A Must Read



<https://unesdoc.unesco.org/ark:/48223/pf0000386693>





Data Collecting

ChatGPT, like all AI tools, are constantly learning

They are being trained with each user interaction to get better and smarter each time

The data you input as part of your prompts and conversations are used for training purposes.

Never input student information into ChatGPT directly





Using AI for Feedback



Craic
Matamaitic

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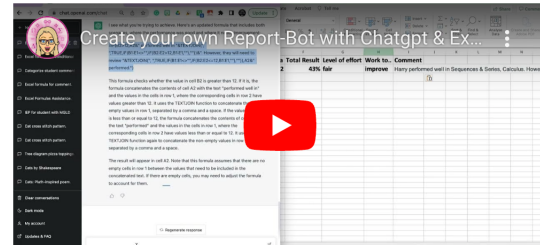
▼ Events

Contact Me

▼ Resources

Creating Report Comments in Excel

I have always used excel to track and record student attainment. I have even used excel along with mail-merge in word doc to help me write detailed, personalised reports for each and every student. ChatGPT has enabled me to make the report writing process even more time efficient! Here's how:



KEY EXCEL TERMINOLOGY:

Rows (Recorded as letters)

<https://www.craicmatamaitic.com/events/ai-chatgpt/chatgpt-x-excel>



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