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# LEICESTER GRAMMAR SCHOOL

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# AI for our Pupils

Peter Cox



**ChatGPT**



How would you define "generative AI"?



Generative AI refers to a subset of artificial intelligence (AI) techniques and models designed to generate new content or data that is similar to, and often indistinguishable from, human-created content. It involves the use of algorithms and models to produce text, images, audio, or other forms of data that appear as if they were created by a human.





ChatGPT



Scribe



DALL-E



Midjourney

VEED.IO

SOUNDRAW



DeepMind



synthesia



Jasper



Microsoft 365  
Copilot



Notion



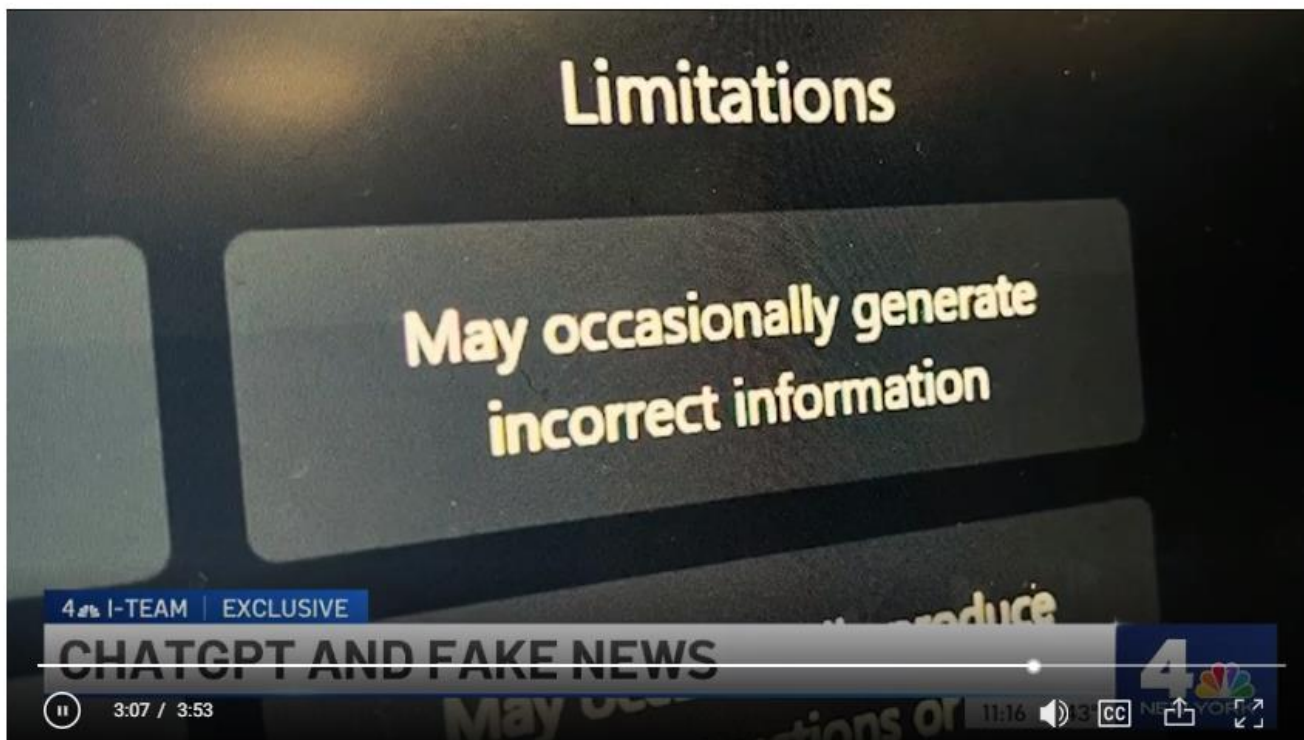
Speechify

I-TEAM

# Fake News? ChatGPT Has a Knack for Making Up Phony Anonymous Sources

Worries about the potential use of artificial intelligence to disseminate fake news and misinformation are just one area of concern surrounding ChatGPT — educators fear students might primarily use it to plagiarize or cheat on certain assignments

By **Chris Glorioso** • Published February 23, 2023 • Updated on February 24, 2023 at 6:14 am



## Trending Stories



### DONALD TRUMP

Is Mar-a-Lago worth \$1 billion? Trump's winter home valuations are at the core of his NY fraud trial



### NEWS

31-year-old teacher quit her job. Now she works at Costco—and boosted her income by 50%: 'I've never been happier'



### UPPER EAST SIDE

NYPD looking for inmate who escaped Mt. Sinai Hospital in midtown: Police



### ISRAEL

Israeli survivors recount terror at music festival, where Hamas militants killed at least 260

Could artificially intelligent chat-bots pump out phony articles with false facts? The I-Team's Chris Glorioso tested ChatGPT — the most



CONVERSATIONS

Business Insider - [Sindhu Sundar](#) Feb 6, 2023

<https://www.businessinsider.com/chatgpt-may-make-up-facts-openai-cto-mira-murati-says-2023-2?r=US&IR=T>



The bot "may make up facts" as it writes sentences, OpenAI's chief technology officer Mira Murati said in an interview with Time magazine, describing that as a "core challenge." ChatGPT generates its responses by predicting the logical next word in a sentence, she said — but what's logical to the bot may not always be accurate.

CO

If you hang three towels on a washing line and it takes three hours for them to dry, how long would it take 9 towels to dry on the line?

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CO

If you hang three towels on a washing line and it takes three hours for them to dry, how long would it take 9 towels to dry on the line?



The time it takes for towels to dry on a washing line can depend on various factors, including the weather conditions, humidity, and the thickness of the towels. However, assuming all other factors remain constant, we can make a simple assumption that the drying time is directly proportional to the number of towels.



In this case, if it takes 3 hours for 3 towels to dry, you can calculate the drying time for 9 towels using the proportion:

$$(3 \text{ towels drying time}) / (3 \text{ towels}) = (9 \text{ towels drying time}) / (9 \text{ towels})$$

Now, solve for the drying time for 9 towels:

$$(3 \text{ hours}) / (3) = (9 \text{ hours}) / (9)$$







LEICESTER  
GRAMMAR  
SCHOOL

# Leicester Grammar School AI Policy

“For certain tasks, pupils can use AI tools to generate content (text, video, audio, images) that will end up in your coursework, homework, activities and responses.”

“There are also situations and contexts within the school where pupils will be asked to use AI tools to enhance learning and to explore and understand how these tools can be used, and times where the use of AI tools will be expressly permitted.”

“Our general assumption, however, is that classwork and homework that is designed to improve skills in that subject (e.g. problem practice in Maths, writing practice in English, translation practice in a language etc.) will be pupil’s own.”



LEICESTER  
GRAMMAR  
SCHOOL

# Leicester Grammar School AI Policy

- If using AI tools you should “acknowledge what part of any assignment was written or created by AI and what was written and created by you. You may not submit any work generated by an AI program as your own.”
- “The unauthorised and unattributed submission of AI-generated answers constitutes plagiarism and is not permitted. We reserve the right to use AI plagiarism detectors or our academic judgement to identify unappreciated uses of AI. The school reserves the right to apply sanctions from the full range of those available where plagiarism has been committed.”



What were the causes of the First World War?

The causes of the First World War are

✓ Searching for: **causes of the First World War**

✓ Generating answers for you...

The causes of the First World War are complex and multifaceted. The war was triggered by the assassination of Archduke Franz Ferdinand of Austria-Hungary by a Serbian nationalist in Sarajevo on June 28, 1914<sup>1</sup>. The assassination led to a series of diplomatic crises and military mobilizations that eventually culminated in the outbreak of war<sup>1</sup>.

The underlying causes of the war include a complex web of alliances between European powers, rising nationalism, militarism, and imperialism<sup>2 3 4</sup>. The Triple Entente (Great Britain, France, and Russia) and the Triple Alliance (Germany, Austria-Hungary, and Italy) were formed as a result of these alliances<sup>1</sup>. The assassination of Archduke Franz Ferdinand was the spark that ignited the powder keg of tensions that had been building up for years<sup>1</sup>.

The war lasted from 1914 to 1918 and involved many countries across the world. Battles were fought on land, sea, and air<sup>1</sup>. Trench warfare was a common feature of the war<sup>1</sup>. The war had a profound impact on the world and led to significant political, social, and economic changes<sup>1</sup>.

Learn more: [1. bbc.co.uk](#) [2. nationalgeographic.com](#) [3. byjus.com](#) [4. iwm.org.uk](#) [+1 more](#) 1 of 30 ●

ANSWERING  
YOUR  
QUESTIONS

New topic

Ask me anything...



0/2000 ➤



# Causes of First World War notes

10 October 2023

09:41

The causes of the First World War are complex and multifaceted. The war was triggered by the assassination of Archduke Franz Ferdinand of Austria-Hungary by a Serbian nationalist in Sarajevo on June 28, 1914<sup>1</sup>. The assassination led to a series of diplomatic crises and military mobilizations that eventually culminated in the outbreak of war<sup>1</sup>.

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The war lasted from 1914 to 1918 and involved many countries across the world. Battles were fought on land, sea, and air<sup>1</sup>. Trench warfare was a common feature of the war<sup>1</sup>. The war had a profound impact on the world and led to significant political, social, and economic changes<sup>1</sup>.

Source: Conversation with Bing, 10/10/2023

(1) How and why did World War One start? - BBC Bitesize.

<https://www.bbc.co.uk/bitesize/topics/zqhyb9q/articles/znhrhj6>.

(2) World War I facts and information - National Geographic.

<https://www.nationalgeographic.com/culture/article/world-war-i>.

(3) Cause of World War I - Read about the Factors the Lead to First World War.

<https://byjus.com/free-ias-prep/causes-of-world-war-one/>.

(4) The Causes Of The First World War | Imperial War Museums.

<https://www.iwm.org.uk/history/the-causes-of-the-first-world-war>.

(5) The Top 5 Causes of World War I - ThoughtCo. <https://www.thoughtco.com/causes-that-led-to-world-war-i-105515>.

**IMPROVING  
YOUR NOTES**



Microsoft Bing

SEARCH CHAT Sign in 231

Term	Definition
Photosynthesis	The process by which green plants and some other organisms use sunlight to synthesize foods with the help of chlorophyll.
Chlorophyll	A green pigment found in the chloroplasts of plants that absorbs light energy for photosynthesis.
Carbon dioxide	A colorless, odorless gas that is a byproduct of respiration and is used by plants during photosynthesis.
Water	A colorless, odorless liquid that is essential for photosynthesis.
Glucose	A simple sugar that is produced during photosynthesis and is used as a source of energy by plants and other organisms.
Oxygen	A colorless, odorless gas that is produced during photosynthesis and is released into the atmosphere.

Ask me anything...

quizlet.com/create-set

### CANCEL IMPORT

Import your data Copy and Paste your data here (from Word, Excel, Google Docs, etc.)

Photosynthesis    The process by which green plants and some other organisms use sunlight to synthesize foods with the help of chlorophyll.

Chlorophyll    A green pigment found in the chloroplasts of plants that absorbs light energy for photosynthesis.

Carbon dioxide    A colorless, odorless gas that is a byproduct of respiration and is used by plants during photosynthesis.

Water    A colorless, odorless liquid that is essential for

Between Term and Definition

☒ Tab

☐ Comma

Import

MAKING  
FLASHCARDS

Can you generate an image of an erupting volcano with a river of running lava in front of it?

I'll try to create that.

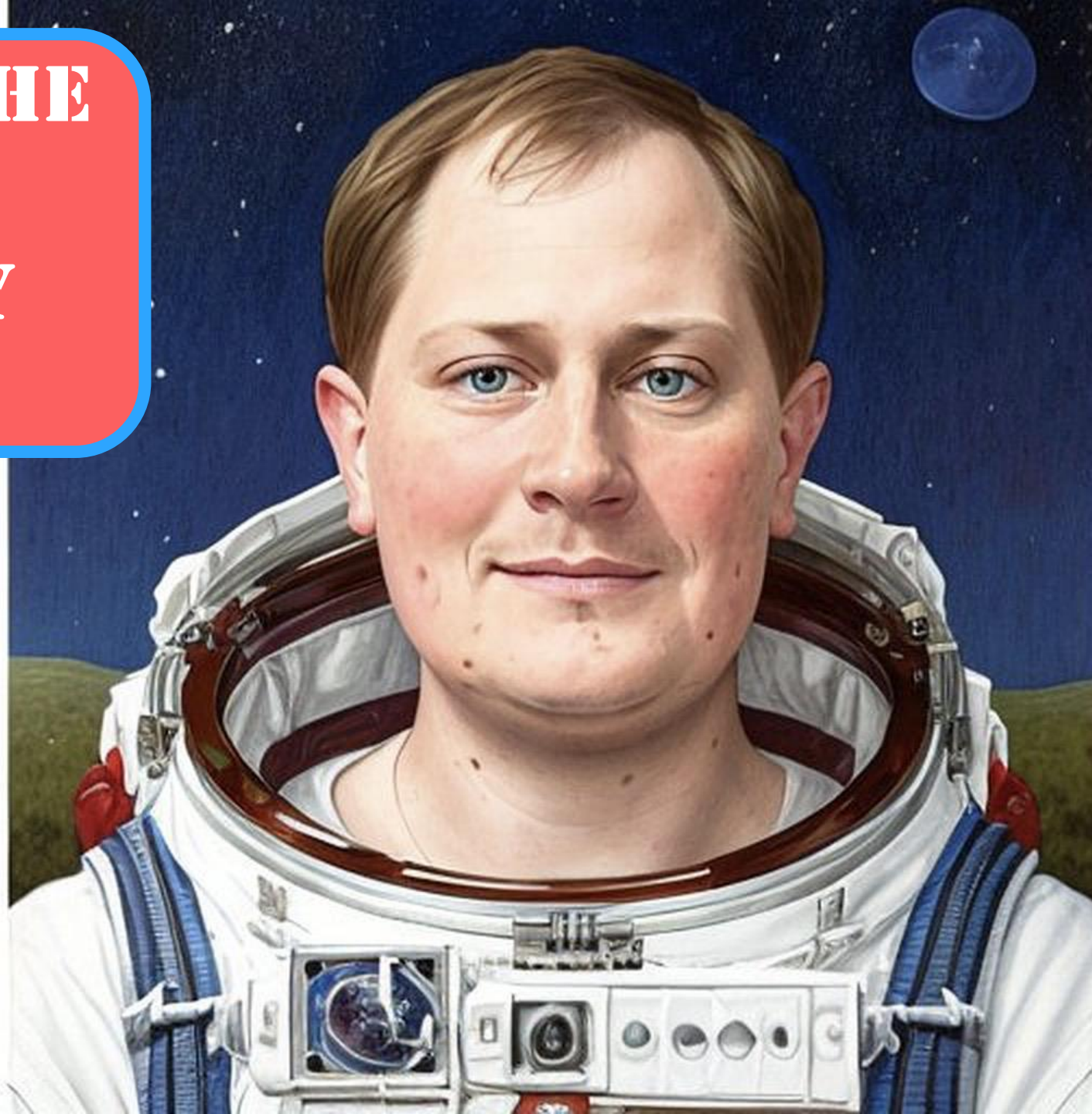
1 of 30 ●



# GENERATING IMAGES



**ONE OF THE  
LESS  
CREEPY  
ONES**



Bing Chat with GPT-4

https://www.bing.com/search?q=Bing+AI&showconv=1&FORM=undexpand&wlsso=1&wlexpsignin=1

Microsoft Bing SEARCH CHAT Peter 234

What is happening in this passage of Shakespeare's Much Ado About Nothing? This can be no trick: the conference was sadly borne. They have the truth of this from Hero. They seem to pity the lady: it seems her affections have their full bent.

Love me! Why, it must be requited. I hear how I am censured: they say I will bear myself proudly, if I perceive the love come from her; / they say too that she will rather die than give any sign of affection. I did never think to marry: I must not seem proud: happy are they that hear their detractions and can put them to mending.

They say the lady is fair; 'tis a truth, I can bear them witness; and virtuous; 'tis so, I cannot reprove it; and wise, but for loving me; by my troth, it is no addition to her wit, nor no great argument of her folly, for I will be horribly in love with her.

I may chance have some odd quirks and remnants of wit broken on me, because I have railed so long against marriage: but doth not the appetite alter? A man loves the meat in his youth that he cannot endure in his age.

Shall quips and sentences and these paper bullets of the brain awe a man from the career of his humour? No, the world must be peopled. When I said I would die a bachelor, I did not think I should live till I were married.

Here comes Beatrice. By this day! She's a fair lady: I do spy some marks of love in her.

New topic Ask me anything... 0/2000

Bing Chat with GPT-4

https://www.bing.com/search?q=Bing+AI&showconv=1&FORM=undexpand&wlsso=1&wlexpsignin=1

Microsoft Bing SEARCH CHAT Peter 234

Shall quips and sentences and these paper bullets of the brain awe a man from the career of his humour? No, the world must be peopled. When I said I would die a bachelor, I did not think I should live till I were married.

Here comes Beatrice. By this day! She's a fair lady: I do spy some marks of love in her.

✓ Searching for: **Much Ado About Nothing Shakespeare summary**

✓ Generating answers for you...

In this passage from Shakespeare's Much Ado About Nothing, Claudio and Don Pedro are discussing Hero's innocence after she was accused of infidelity. Claudio is convinced of her guilt, but Don Pedro is not. Meanwhile, Benedick is contemplating his love for Beatrice and how he should act on it. He is concerned that he will appear proud if he accepts her love, but also that she will not show any affection towards him. Benedick then goes on to describe Beatrice as fair, virtuous, and wise, but also notes that she loves him, which he does not consider a sign of her intelligence. He then reflects on how his views on marriage have changed and how he has come to love Beatrice. Finally, he sees Beatrice approaching and notes that he can see some signs of love in her <sup>1</sup> <sup>2</sup> <sup>3</sup>.

Learn more: [1. sparknotes.com](#) [2. bbc.co.uk](#) [3. bbc.co.uk](#) [4. shakespeare.org.uk](#) 2 of 30

? Who is Beatrice? What happens to Hero in the play? Can you tell me more about Benedick's character?

Ask me anything... 0/2000

# SUMMARISING A PASSAGE





Q-Chat

Enhanced by AI

## IGCSE Photosynthesis

Great! Looks like you're studying IGCSE Photosynthesis. Please select an activity.



Teach me



Quiz me



Apply my knowledge

Skip

Teach me



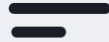
Welcome to the exciting world of photosynthesis! In this lesson, we'll explore the process by which plants convert light energy into chemical energy. **Photosynthesis** is like a superhero power that plants have, allowing them to make their own food. We'll learn about the key players in this process, such as **chloroplasts** and **chlorophyll**, and discover how factors like **light**, **temperature**, and **carbon dioxide** affect the rate of photosynthesis. Get ready to dive into the fascinating world of plants and their amazing ability to harness the power of sunlight! Let's get started!



Let's start with the term **boil in water to: kill the leaf and denature the enzymes**. Imagine you have a leaf that you want to study, but it's still alive and has enzymes that can affect your experiment. By boiling the leaf in water, you can kill the leaf and stop any enzyme activity. It's like turning off the leaf's "power switch". For example, if you want to investigate the leaf's structure, you would boil it in water to make sure the enzymes are no longer active. Now, here's a question for you: Why is it important to denature the enzymes when studying a leaf?

Your AI tutor is ready to help. Just start typing.

0/300



### Meet Q-Chat: your AI tutor

Engage with your highly responsive study partner

AI AS  
YOUR  
TUTOR

1 Foundations in Biology

1.1 Cell Structure

1.1.1 Introduction to Cells

1.1.2 Ultrastructure of Eukaryotic Cells

1.1.3 Ultrastructure of Eukaryotic Cells 2

1.1.4 Cytoskeleton

1.1.5 Methods of Studying



and forming signal recognition particles.



Typing speed: x1.0

0 / 1

## The Nucleus



The nucleus is a big organelle that contains the cell's DNA. It is surrounded by a nuclear

\_\_\_\_\_.

Feedback?

Check

AI BASED  
QUESTIONING

I am doing Biology, Chemistry and Geography A Level, can you plan me a revision timetable from 14th December to the 4th January. I want to take Christmas day off.

- Sure, I can help you with that. Here is a revision timetable for the period of **14th December to 4th January** with Christmas day off:
- This timetable is based on the assumption that you will be studying for two hours every weekday and two hours on weekends. You can adjust the timings and subjects according to your preference and needs. Good luck with your revision!



MAKING A REVISION  
TIMETABLE

Weekdays	Time	Subject
Mon 12/13/21	6-8 PM	Chemistry
Tue 12/14/21	6-8 PM	Biology
Wed 12/15/21	6-8 PM	Geography
Thu 12/16/21	6-8 PM	Chemistry
Fri 12/17/21	6-8 PM	Biology
Sat 12/18/21	10 AM-12 PM	Geography
Sun 12/19/21	10 AM-12 PM	Chemistry
Mon 12/20/21	6-8 PM	Biology
Tue 12/21/21	6-8 PM	Geography
Wed 12/22/21	6-8 PM	Chemistry
Thu 12/23/21	6-8 PM	Biology
Fri 12/24/21 - Sat 12/25/21	-	Christmas Day Off
Sun 12/26/21 - Mon 12/27/21	-	Christmas Break
Tue 12/28/21 - Wed 12/29/21	-	Christmas Break
Thu 12/30/21 - Fri 12/31/21	-	Christmas Break
Sat 1/1/22	-	New Year's Day Off
Sun 1/2/22	-	New Year's Break
Mon 1/3/22	-	New Year's Break
Tue 1/4/22	-	New Year's Break



Can you write me an A Level style essay as to why Batman is better than Superman?

Certainly! Here is an essay that compares Batman and Superman and argues that Batman is the superior superhero.

Argument  
is clear  
throughout

Batman and Superman are two of the most iconic superheroes in popular culture. While both characters have their strengths, Batman is the superior superhero for several reasons. First, Batman is a more relatable character than Superman. Unlike Superman, who has god-like powers, Batman is a human being who relies on his intelligence, physical strength, and technology to fight crime. This makes him a more compelling character because he is more vulnerable and has to work harder to overcome his limitations.

Lots of repetition of Proper Nouns → tedious

Second, Batman is a more complex character than Superman. While Superman is a symbol of hope and justice, Batman is a darker character who struggles with his own demons. He is haunted by the death of his parents and has to constantly battle his own anger and desire for revenge. This makes him a more interesting character because he has to overcome his own flaws in addition to fighting crime.

Rather  
listing

Third, Batman is a better role model than Superman. While Superman is an idealized version of humanity, Batman represents what people can achieve through hard work and determination. He shows that anyone can be a hero if they are willing to put in the effort. This makes him a more inspiring character because he represents the best of what humanity can be.

Millionaire!  
Spurious  
argument

low frequency  
language stands  
out - highlights basic  
nature

Fourth, Batman's villains are more interesting than Superman's villains. While Superman's villains are often one-dimensional characters who are simply evil for the sake of being evil, Batman's villains are complex characters with their own motivations and backstories. Characters like the Joker, Two-Face, and Catwoman are just as interesting as Batman himself, which makes for a more engaging story.

rather bland language

Example?  
Proof?

Finally, Batman has a better supporting cast than Superman. Characters like Alfred Pennyworth, Commissioner Gordon, and Robin are just as important to the Batman mythos as Batman himself. They provide support and guidance to Batman when he needs it most, which makes him a stronger character overall.

In conclusion, while both Batman and Superman are great superheroes, Batman is the superior character because he is more relatable, complex, inspiring, has more interesting villains and supporting cast than Superman. His struggles with his own demons make him a more interesting character, and his reliance on his own intelligence and technology make him a better role model for people who want to make a difference in the world.

What about Superman's team when he is Clark Kent? Ignores possible counter-argument

Repeats points already made so not an effective conclusion. No development.

This structure is of type we might use as a model when training Year 7s in the first term. It is not an A-level essay as there is no subtlety or sophistication. There is no use of specific examples to back up points made.

# YOU CRITIQUING AI'S WORK

Thanks to Mrs Kendall for  
marking this one

# FINAL THOUGHTS



AI is here to stay and is going to be a part of any working environments our young people hope to go into



Be cautious and critical of information coming from all sources, but especially AI. Check the information against multiple sources.



There are often free tools behind those that will charge you, so think before you get out your wallet.



Explore. Get used to using these tools appropriately.

# Risks and Dangers of AI

Jennifer Young

Deputy Head, Pastoral



### Safer scrolling:

*How algorithms popularize and gamify online hate and misogyny for young people*

Kaitlyn Regehr, Caitlin Shaughnessy, Minzhu Zhao & Nicola Shaughnessy



# ‘Chatbots’ and ‘virtual assistants’



ChatGPT



Copilot



# Trump supporters target black voters with faked AI images

🕒 4 March



This image, created by a radio host and his team using AI, is one of dozens of fakes portraying black Trump supporters

# Kate photo withdrawn by five news agencies amid 'manipulation' concerns

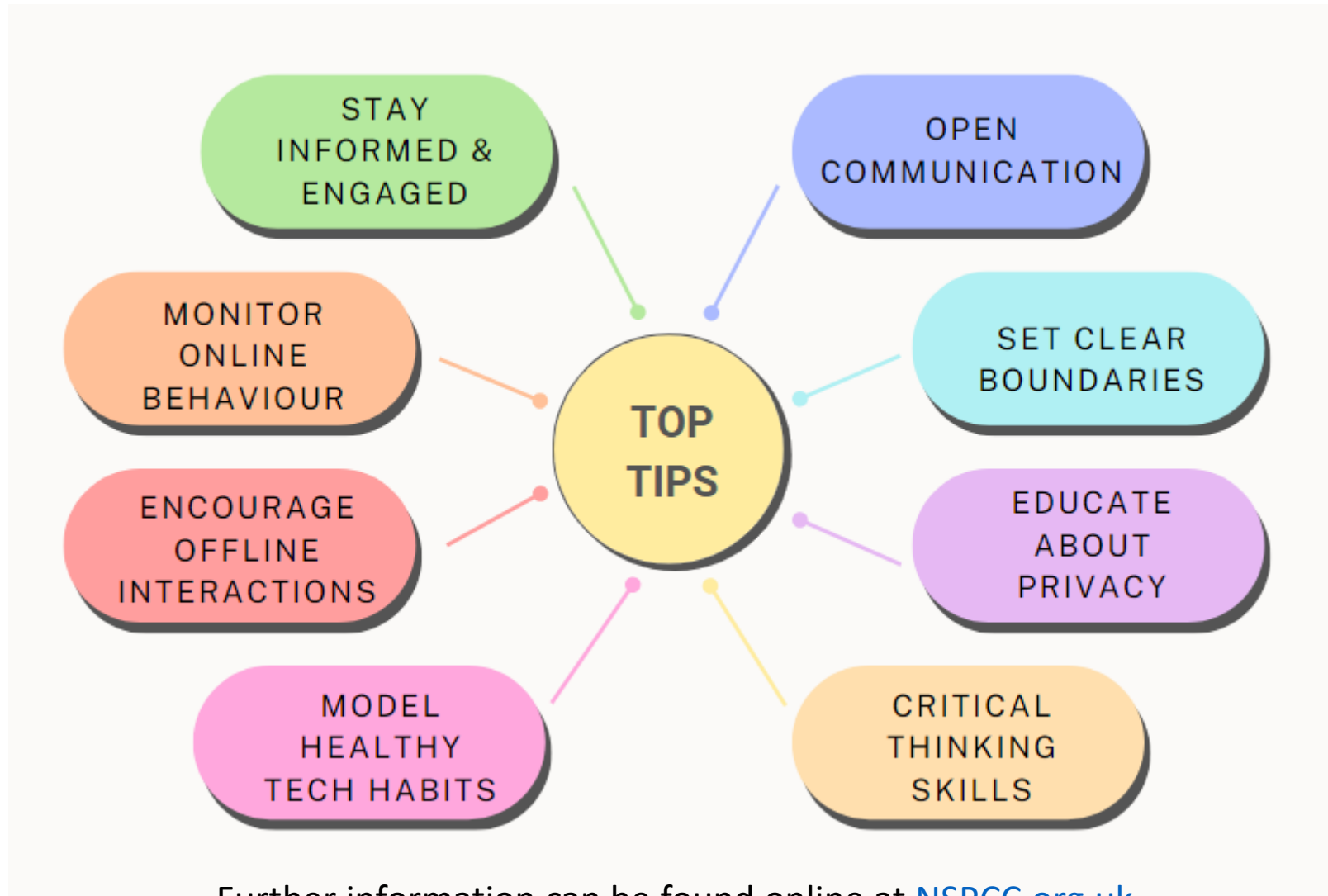
🕒 11 March



Source: Prince of Wales/Kensington Palace

BBC

# Tips for parents





# Parental control apps for Android and iPhone

(*'Tom's Guide' 2024*)

BEST OVERALL



BEST VALUE



BEST MONITORING



BEST FOR BIG  
FAMILIES



BEST FOR IOS



BEST FOR ANDROID



Click [here](#) for further information



Awareness  
raising



Life  
Education



School  
Council

WHAT ARE  
WE DOING IN  
SCHOOL?



Lectures



Peer  
teaching



Assemblies

# Healthy Digital Diet



# AI in Education

Carl James

Deputy Head, Curriculum

# AI is old news

- AI has been doing stuff for us (to us?) for ages
- Amazon's suggestions – increasingly good
- Google's search engine suggestions – increasingly good
- As you move down the street, ANPR, traffic lights, CCTV etc.

## Buy Again



Purchased Apr 2024



Purchased Jan 2024



Purchased Sept 2023



Purchased Apr 2024

[More in Buy Again](#)

# Generative AI is basically new

- Mass availability is post-Covid
- Possibly stimulated by industry capacity as remote working began to shrink back
- Movement from ability to perform very specific tasks (like searching, or certain types of shopping) to being able to generate 'novel' content on anything (within reason and some rules)

# Why now?

Difficult to decide when to say anything about AI

Possibility that we have seen the end of the 'big bang' phase

Popularity tide is turning – a critical cynicism is probably an asset for us (and children) as users



# AI spam is winning the battle against search engine quality

'Not all AI content is spam, but I think right now all spam is AI content'

Brandon Vigliarolo

**INTERVIEW** We know Google search results are being hammered by the proliferation of AI garbage, and the web giant's attempts to curb the growth of machine-generated drivel haven't helped all that much.

It's so bad that Jon Gillham, founder and CEO of AI content detection platform Originality.ai, told us Google is losing its war on all that spammy, scammy content in its search results. You can see our full interview with Jon about it all below.

Sat 13 Apr 2024 // 19:08 UTC

**The Observer**  
Artificial intelligence (AI)

Sat 13 Apr 2024 16.00 BST

Share

187

From boom to burst, the AI bubble is only heading in one direction

*John Naughton*



No one should be surprised that artificial intelligence is following a well-worn and entirely predictable financial arc



# Let's build a new car!

- An actually new car
- There are rules about this, set by legal frameworks in many countries
- We (manufacturer) need to spend hundreds of millions, e.g.:
  - R&D
  - Compliance
  - Safety testing
  - Tooling for novel parts
  - New factory?
  - (Probably) Product Recall for early adopter consumers

# Let's run a new Generative AI

- A bit like launching a new car but:
  - without (m)any rules
  - without much safety testing (if any)
- So this means that we are the crash test dummies:
  - all of us in society at large
  - children included

# There are some rules, but they aren't necessarily helpful

*A scene that depicts all that is bad about modern Britain*

*A scene that depicts all that is bad about modern Germany – **computer says no.***



# Generative AI is limited

A Science teacher wishes to produce an image to support a lesson on Laboratory Safety. He asks Gen-AI for an image showing some schoolchildren behaving dangerously in a lab – so that pupils can then identify the dangerous behaviour.

We're expecting:

- Missing goggles
- Wet surfaces
- Lack of lab coats



# Unsafe Laboratory Behaviour





# Generative AI – The Students' SNAKE-OIL™

- Gen-AI is already being sold as personalised learning
- It is efficient at helping certain learners prepare for certain exams
- Exams, useful as they are, are a reduction to common factors (so it's the polar opposite to personalised learning)
- Unlikely (in its current form) to replace teachers...
- ...but, could have a role to play in plugging gaps

# Generative AI - Plagiarism

- This is the big panic for educators, especially Universities
- “Turnitin” etc. – not proving an enormous help [yet]
- What happens to:
  - Homework
  - Coursework
  - Exams with any sort of ‘open book’ element or remotely conducted
- International Bacc – embrace!
- English system – retrenchment!
  - Don’t really use AI, and if you do you must acknowledge it like any other source (else it is malpractice)



It took me just three goes to get this sort of likeness.

# Generative AI – What to Teach

- “We need to be teaching children how to prompt AI effectively”
  - This creates time savings in the order of minutes
  - Gen-AI will look completely different when our children hit the workforce
- Better:
  - General awareness of its functions
  - Potential
  - Limitations
  - Ethics (plagiarism, avoiding dangerous content (reading/creating))
    - **Responsible and Appropriate use**
  - Dangers (largely as inherited from the Internet at large)
  - Career implications: some jobs will disappear, others will change

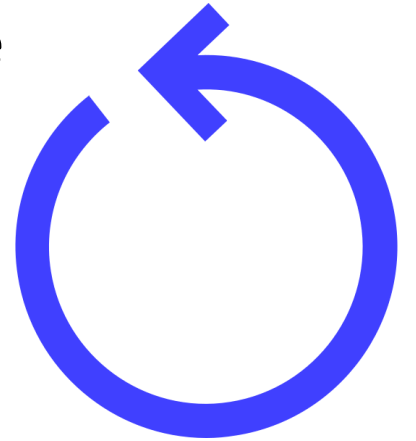
# Generative AI - opportunities

- China has a 'tutor match' app [technology similar to dating apps] – this will come to the Anglosphere
- Job market disruption – probably helpful for those with enough time to pivot before entering the fray
- Facility for learners:
  - Effectively a 'more human' search engine
  - Obvious potential for some assistance with learning
- Improvements for teachers:
  - Create some resources [little excellent, but mediocrity in abundance]
  - Hopefully useful for admin [with wins for T&L], but we said this before about email



# Generative AI – A bright future!?

- It's not clear
- Gen-AI uses the internet for its learning
- But an increasing proportion of the internet is Gen-AI generated
- This circular logic is likely to end badly without good management:
  - Propagation of a limited amount of information in convergent style
  - Risk of propagation of misinformation



# So what's happening?

- Ofsted and Ofqual must present to ministers this month how they will approach AI with a strategy to include what is currently going on to understand it and manage current and emergent risks
- JCQ (who run the exams system) are perpetually clarifying the regulations
- Governments are gradually regulating: the US now has 25 AI-related regulations (versus 1 back in 2016)

# What do we [all] do about it?

AI may appear more authoritative. **But don't forget it's the internet.**  
So it's mostly common-sense and proportionate care.

- Careful with personal data
- Don't do anything offensive, rude or irresponsible
- Know that it could save time or augment progress...
- ...but know also there are reliability concerns
- Check outcomes carefully
- Never pass off other's work as yours (including that of machines)
- **Talk to each other about what you are doing**

# What does a school do about it?

- The above...!
  - Make sure teachers are aware
  - Make sure pupils are aware
  - Help families to be aware
  - Listen to families (who may know a great deal more than us)
- Use it where there is cause to use it
  - Shaping up as a tool rather than an end in itself
  - Does need to find niches within our existing curriculum – this comes next

“Any intelligence is better than none”