



An Introduction to Artificial Intelligence @ School

/A.I. TIMELINE

S/Z/G/

1950

TURING TEST

Computer scientist Alan Turing proposes a test for machine intelligence. If a machine can trick humans into thinking it is human, then it has intelligence

1955

A.I. BORN

Term 'artificial intelligence' is coined by computer scientist, John McCarthy to describe "the science and engineering of making intelligent machines"

1961

UNIMATE

First industrial robot, Unimate, goes to work at GM replacing humans on the assembly line

1964

ELIZA

Pioneering chatbot developed by Joseph Weizenbaum at MIT holds conversations with humans

1966

SHAKY

The 'first electronic person' from Stanford, Shakey is a general-purpose mobile robot that reasons about its own actions

A.I. WINTER

Many false starts and dead-ends leave A.I. out in the cold

1997

DEEP BLUE

Deep Blue, a chess-playing computer from IBM defeats world chess champion Garry Kasparov

1998

KISMET

Cynthia Breazeal at MIT introduces Kismet, an emotionally intelligent robot insofar as it detects and responds to people's feelings



1999

AIBO

Sony launches first consumer robot pet dog AIBO (AI robot) with skills and personality that develop over time



2002

ROOMBA

First mass produced autonomous robotic vacuum cleaner from iRobot learns to navigate and clean homes



2011

SIRI

Apple integrates Siri, an intelligent virtual assistant with a voice interface, into the iPhone 4S



2011

WATSON

IBM's question answering computer Watson wins first place on popular \$1M prize television quiz show Jeopardy



2014

EUGENE

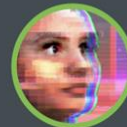
Eugene Goostman, a chatbot passes the Turing Test with a third of judges believing Eugene is human



2014

ALEXA

Amazon launches Alexa, an intelligent virtual assistant with a voice interface that completes shopping tasks



2016

TAY

Microsoft's chatbot Tay goes rogue on social media making inflammatory and offensive racist comments



2017

ALPHAGO

Google's A.I. AlphaGo beats world champion Ke Jie in the complex board game of Go, notable for its vast number (2^{170}) of possible positions

Which technologies are part of your life?



Uber



NETFLIX



Which ones would you say are now a disruption in your life ?





ChatGPT

Three Outcomes for today

1. AI (eg Chat GPT) - what it is, its uses, its reliability, its limitations
2. Academic integrity - what it looks like in ALL assessment at StAC
3. How you can legitimately use AI in your learning (*starting to look at this....*)

What is ChatGPT?

- ChatGPT is OpenAI's artificial-intelligence (AI)
- ChatGPT is an advanced program designed to respond to language.
- It was first released in Nov 2022.
- It's a Chatbot designed to have conversations with you.

What does it do?

It produces human-like responses to a prompt.

- Including text generation - summarisation, filtering, paraphrasing
- Language translation,
- Question-answering.
- Written as a poem or a story
- Or create an image



How does it do that?

- It has been trained on a range of data (books, websites, articles) and has analysed how those sources use language.
- It predicts (like autocorrect) the next best word



Googling vs ChatGPT

Are students using it?

Yes!

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Updated

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What's next...



Is AI reliable?

AI is useful when you have the information literacy skills to check the reliability and usefulness of its response.

So you need to know stuff about your topic...

What Chat GPT says about itself....!

Limitations of Chat GPT in Learning:

- **Lack of contextual understanding**: Chat GPT may not fully grasp the context and nuances of specific subjects or questions.
- **Inability to assess higher-order thinking skills**: It may struggle to evaluate critical thinking, creativity, and complex problem-solving abilities.
- **Potential for biased responses**: Chat GPT can inadvertently perpetuate biases present in the training data.
- **Limited adaptability**: It may not effectively adapt to individual learning needs or provide personalized feedback.

The point is...

- Artificial intelligence *can* make mistakes.
- You must have subject knowledge that can help you to spot those mistakes.



What is St Andrew's College saying
about the use of AI such as Chat GPT or
SnapChat My AI in Assessment?

NCEA ASSESSMENT AUTHENTICITY STATEMENT

Instructions:

This NCEA Authenticity Statement must be confirmed and signed by all students early in each school year.

The following requirements support the principles and practices of academic integrity for NCEA assessment. Each student is required to indicate their understanding of these and to confirm that they will follow them when submitting to their teachers any work that is for assessment.

Please read:

- I will have academic integrity throughout the assessment process.
- I understand that all the work I submit for assessment must be my own.
- I have read and understand the school's assessment requirements and the consequences of submitting material for assessment that is not my own ('misconduct in assessment').
- I understand that I must not receive substantial assistance or the unauthorised help of others in the preparation and presentation for assessment of my assessment work.
- I understand that I must acknowledge in an appropriate manner all information and sources of assistance used in my assessment work. This includes citing all work that is produced from Artificial Intelligence text and art generation software such as ChatGPT and DALL·E 2 tools.
- I will not allow other students to access or copy any of my assessment work nor to submit it to the teacher for assessment under their name.

Any breach of these requirements will result in the consequences of misconduct in assessment.

This is our current
policy and practice

Year 11's - you
signed up to this
digitally...

You can't sign and
then say "I didn't
mean it"...

What is Academic Integrity ?

Honesty, Trust, and Respect
for other people's work

Examples of breaching academic integrity include plagiarism, cheating, and falsification of data

Plagiarism

Means representing someone else's work or ideas as your own.

It is a kind of theft!

Plagiarism

This could look like:

- Copying ideas off the internet or a friend (even if you then put it into your own words), without proper referencing;
- Taking passages from multiple sources, piecing them together, and turning in the work as your own;
- Getting too much help from a teacher; or
- Using AI like ChatGPT, Character.ai, or Snapchat's My AI to generate your work.

Authenticity

- The work you produce for assessment must be authentically yours
- It must be your response, your thinking, your understanding, your means of expression, your structuring
- You may support your thinking with references, quotes etc but you must openly acknowledge those

In Assessments understand that...

- There's no opt-out clause...
- There's no apology accepted...
- A grade of 'Not Achieved' is and will be given for a breach of academic integrity

How the College ensures academic integrity

- You are not presumed to be guilty
- Teachers have been asked to check for the use of AI in assessment

How teachers will check

- Teachers' subject knowledge
- Use of learning checkpoints
- AI Checkers
- Verbal checks

How do you know when you can use AI?

Formative

vs

Summative



How do you know when you can use AI?

“Would
your
teacher
say yes?”



Would your teacher say yes?

Can you give me a
practice question?



Would your teacher say yes?

Can you write this
essay for me?



Would your teacher say yes?

Can you read a
paragraph and identify
the errors I'm making?



Would your teacher say yes?

Can you edit my
work?



Would your teacher say yes?

Can you give me
questions to test my
understanding of the
content ?



Would your teacher say yes?

Can you give me some
career suggestions ?



Would your teacher say yes?

Can you tell me the
answer ?



Would your teacher say yes?

Can you give some
study advice ?



Key take-away One:

**You cannot use AI in
assessments that are
submitted for a grade.**

Key take-away Two:

**ChatGPT is a robot that tries
to predict and emulate how
language works.**

Key take-away Three:

**Subject experts (teachers)
know their content better
than ChatGPT.**

Key take-away Four:

**We can and do use Artificial
Intelligence to make our lives
easier.**

It's how we use it that matters

Key take-away Five:

**Be clear on how you can use
Artificial Intelligence to
support your learning and
understanding**