Artificial Intelligence and Inclusive Education

Craig Smith – Manager of Technology and Innovation

positive partnerships
Working together to support school-aged students on the autism spectrum

Select all images below that match this one

CONFIRM
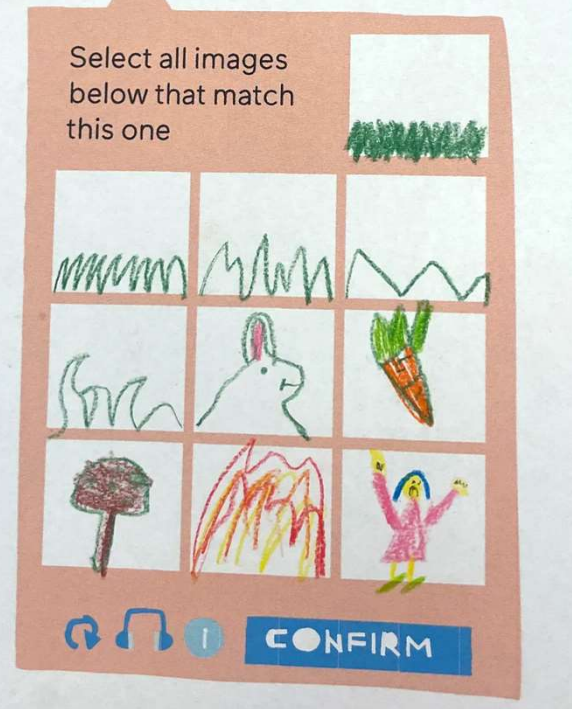
1

Acknowledgement of Country

positive partnerships
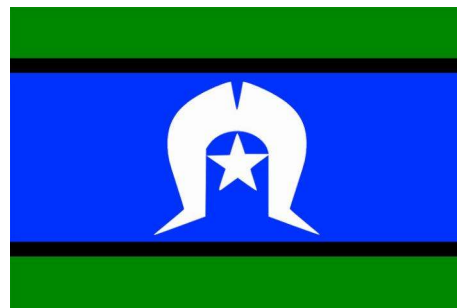
2

First Nations people are advised that this workshop may contain images and voices of people who are no longer with us.

3

Introductions

positive partnerships

4

Webinar Settings

- A recording will be available on our website next week

- To chat, please make sure your messages are going to 'Everyone' and not just the presenter
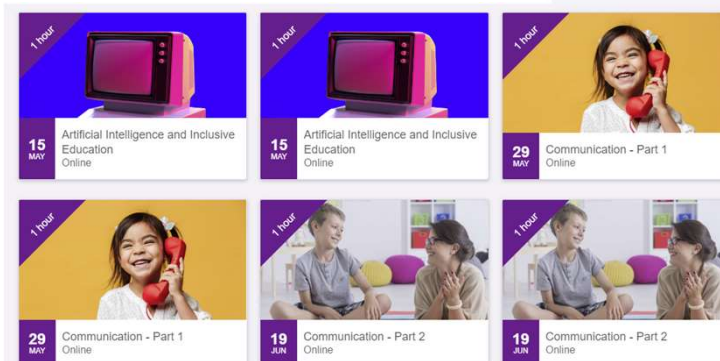
positive partnerships

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Have you registered through our **website** (not Zoom) for this webinar? If not, please go onto our website and do so now.
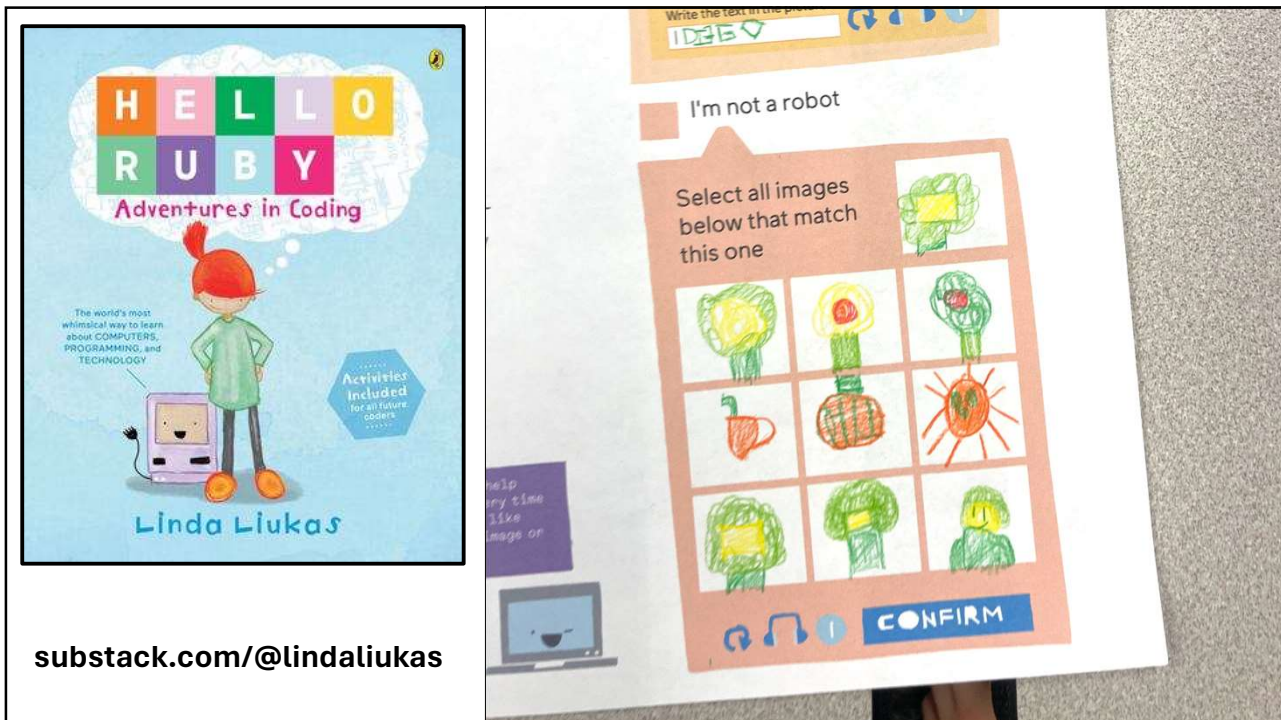**You can scan the QR code, or go to www.positivepartnerships.com.au**

This will ensure you receive a certificate.

Registration is only open until the webinar finishes.

www.positivepartnerships.com .au

6

substack.com/@lindaliukas

7

Artificial Intelligence and Inclusive Education

The latest resources to understand the role of artificial intelligence in inclusive education to support neurodiverse learning outcomes.

- Brief foundational overview and considerations of AI

- Australian Framework for Generative Artificial Intelligence in Schools

- Tools for Teachers and Families
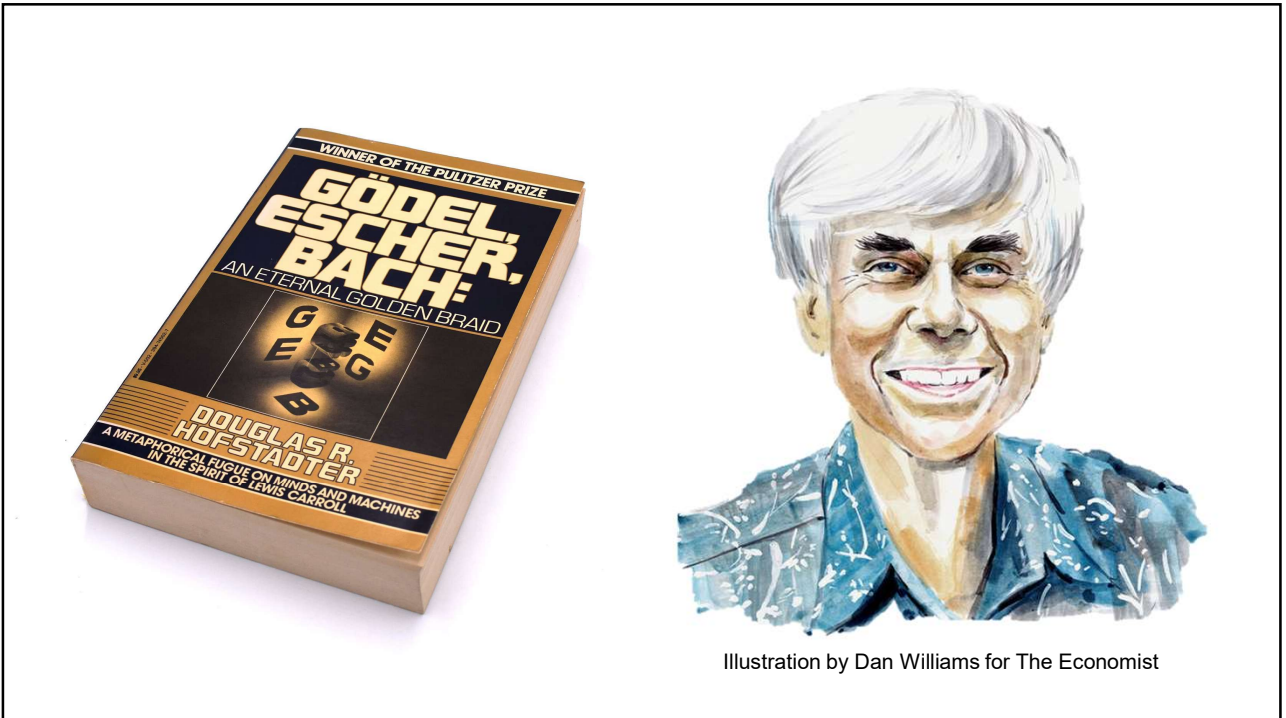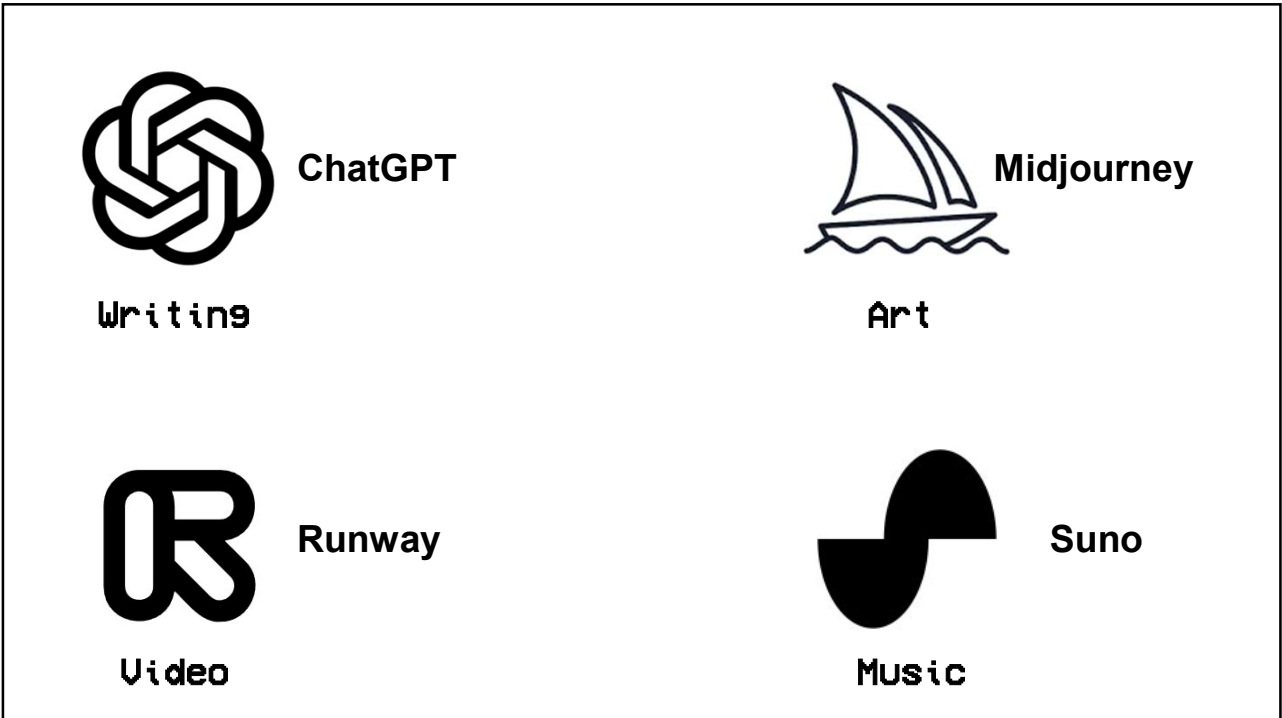
- Tools for Students

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12

13

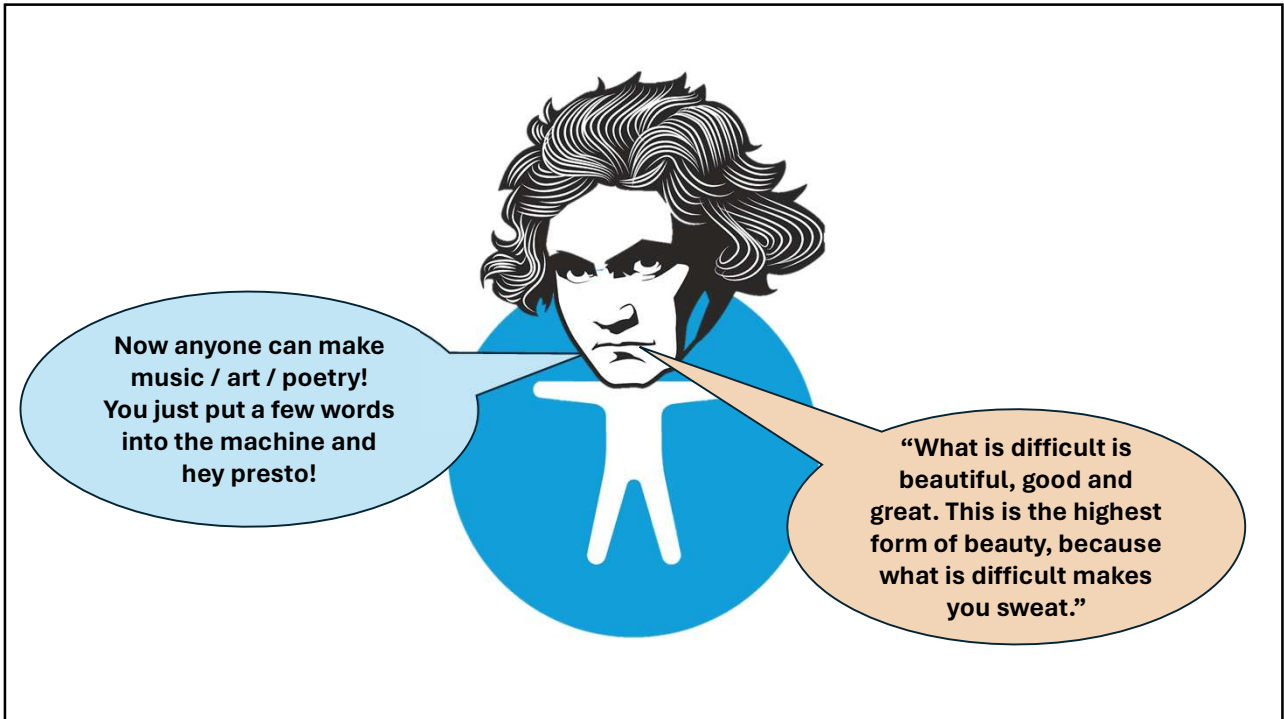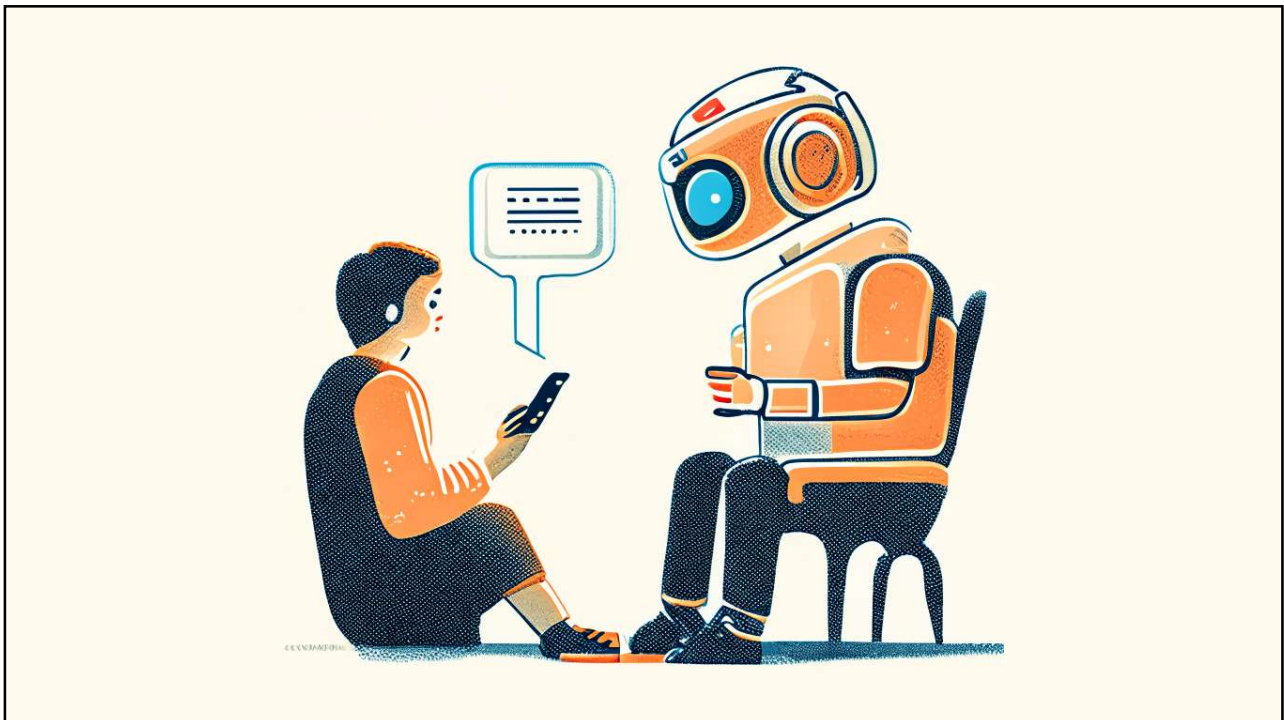Illustration by Dan Williams for The Economist

14

15

ChatGPT

Writing

Midjourney

Art

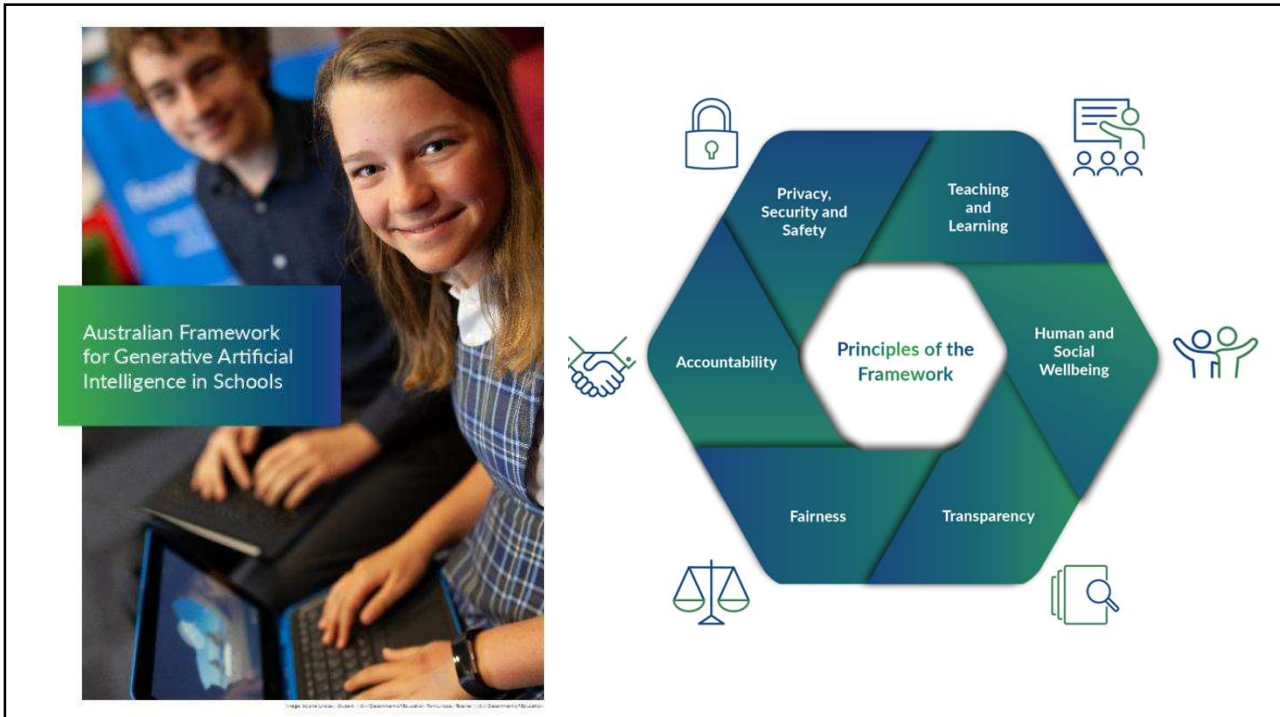Runway

Video

Suno

Music

16

17

18

ELIZA

You: I'm feeling sad.

Eliza: Why are you feeling sad?

You: I'm too busy working all the time.

Eliza: Why are you too busy working all the time?

You: Because I have said 'yes' to too many projects.

Eliza: Do you often say 'yes' to too many projects?

You: I do, I can't help it.

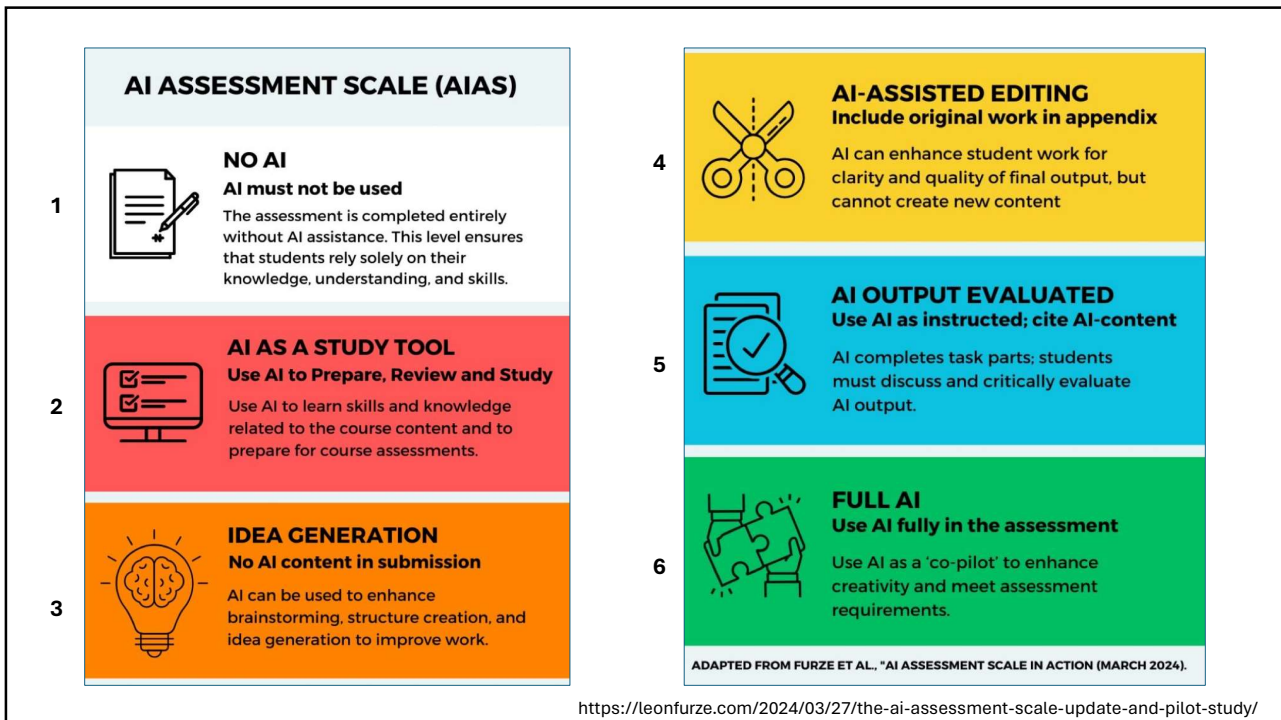Eliza: Why do you think you can't help it?

19

20

21

1. Teaching and Learning

Generative AI tools are used to support and enhance teaching and learning.

1.4 Critical thinking: generative AI tools are used in ways that support and enhance critical thinking and creativity, rather than restrict human thought and experience.

22

AI ASSESSMENT SCALE (AIAS)

1 — **NO AI**
AI must not be used
The assessment is completed entirely without AI assistance. This level ensures that students rely solely on their knowledge, understanding, and skills.

2 — **AI AS A STUDY TOOL**
Use AI to Prepare, Review and Study
Use AI to learn skills and knowledge related to the course content and to prepare for course assessments.

3 — **IDEA GENERATION**
No AI content in submission
AI can be used to enhance brainstorming, structure creation, and idea generation to improve work.

4 — **AI-ASSISTED EDITING**
Include original work in appendix
AI can enhance student work for clarity and quality of final output, but cannot create new content

5 — **AI OUTPUT EVALUATED**
Use AI as instructed; cite AI-content
AI completes task parts; students must discuss and critically evaluate AI output.

6 — **FULL AI**
Use AI fully in the assessment
Use AI as a 'co-pilot' to enhance creativity and meet assessment requirements.

ADAPTED FROM FURZE ET AL., "AI ASSESSMENT SCALE IN ACTION (MARCH 2024).

https://leonfurze.com/2024/03/27/the-ai-assessment-scale-update-and-pilot-study/
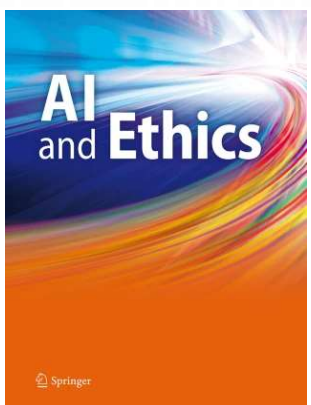
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2. Human and Social Wellbeing

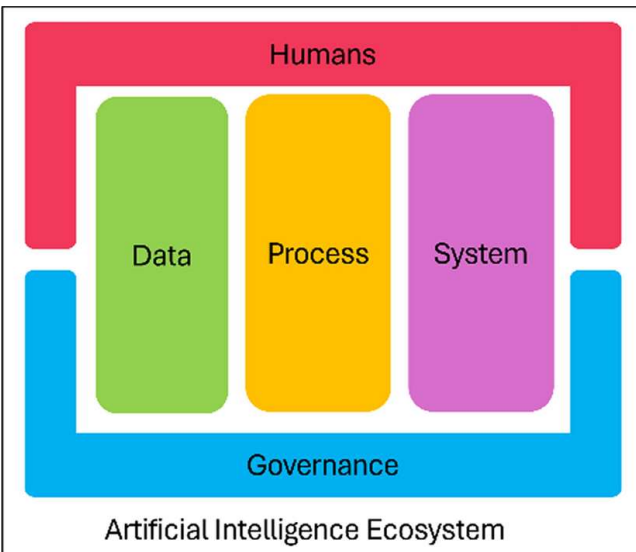Generative AI tools are used to benefit all members of the school community.

2.2 Diversity of perspectives: generative AI tools are used in ways that expose users to diverse ideas and perspectives and avoid the reinforcement of biases.

24

https://research.csiro.au/ss/team/diai/

25

3. Transparency

School communities understand how generative AI tools work, how they can be used, and when and how these tools are impacting them.

3.1 Information and support: teachers, students, staff, parents and carers have access to clear and appropriate information and guidance about generative AI.

3.2 Disclosure: school communities are appropriately informed when generative AI tools are used in ways that impact them.

26

Artificial intelligence (AI) in schools – information for parents and carers

⌂ › For parents and families › Curriculum and learning › Artificial intelligence in schools › AI in schools – information for parents and carers

Government of South Australia
Department for Education

Dear Parents,

As educators at [School Name], we want to ensure that you are informed about an important development in technology that is increasingly being used in educational settings: generative artificial intelligence (AI).

Generative AI refers to AI systems that can create new content, such as text, images, or audio, based on the data they have been trained on. These tools have the potential to enhance teaching and learning in our classrooms, but it's crucial that we use them responsibly and ethically.

https://www.education.sa.gov.au/parents-and-families/curriculum-and-learning/ai/artificial-intelligence-ai-in-schools-information-for-parents-and-carers

Sample letter on PP Website

27

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4. Fairness

Generative AI tools are used in ways that are accessible, fair, and respectful.

4.1 Accessibility and inclusivity: generative AI tools are used in ways that enhance opportunities, and are inclusive, accessible, and equitable for people with disability and from diverse backgrounds.

28

14

5. Accountability

Generative AI tools are used in ways that are open to challenge and retain human agency and accountability for decisions.

5.3 Monitoring: the impact of generative AI tools on school communities is actively and regularly monitored, and emerging risks and opportunities are identified and managed.

29

6. Privacy, Security and Safety

Students and others using generative AI tools have their privacy and data protected.

6.3 Protection of student inputs: students, teachers and staff take appropriate care when entering information into generative AI tools which may compromise any individual's data privacy.

30

31

Tools for teachers and families

32

OpenAI

ChatGPT
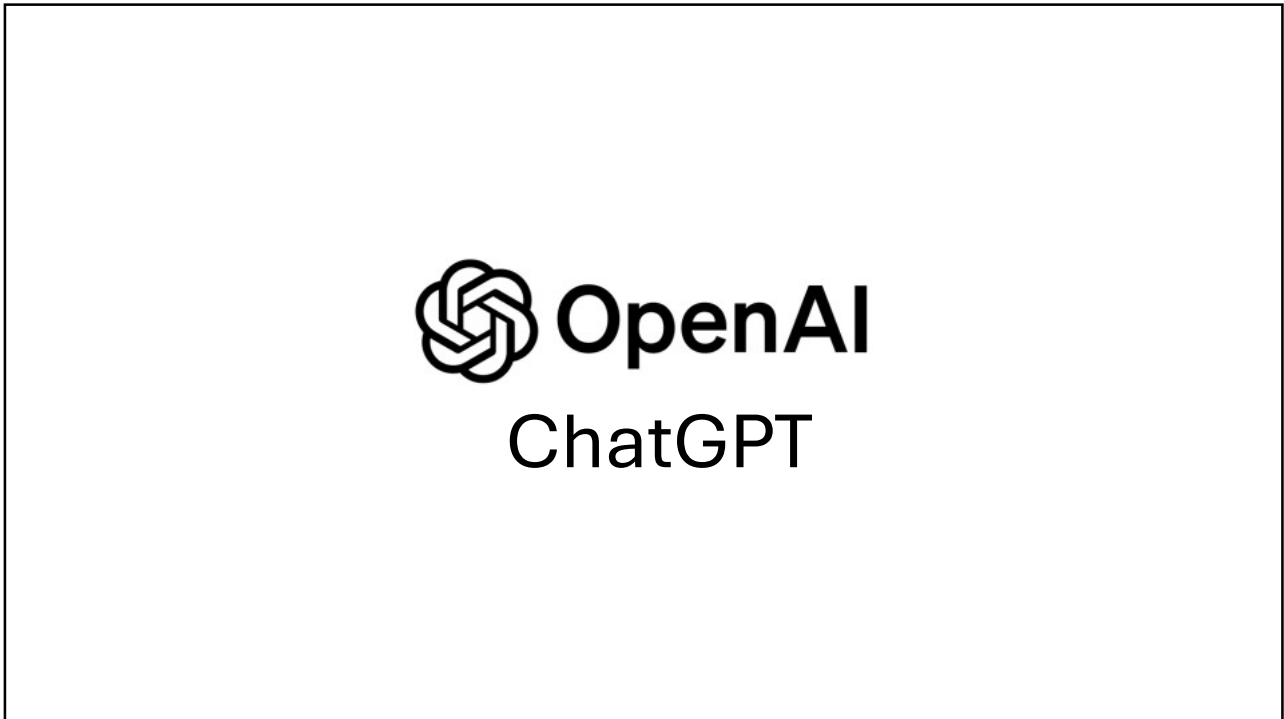
33

The Universal Sandpit

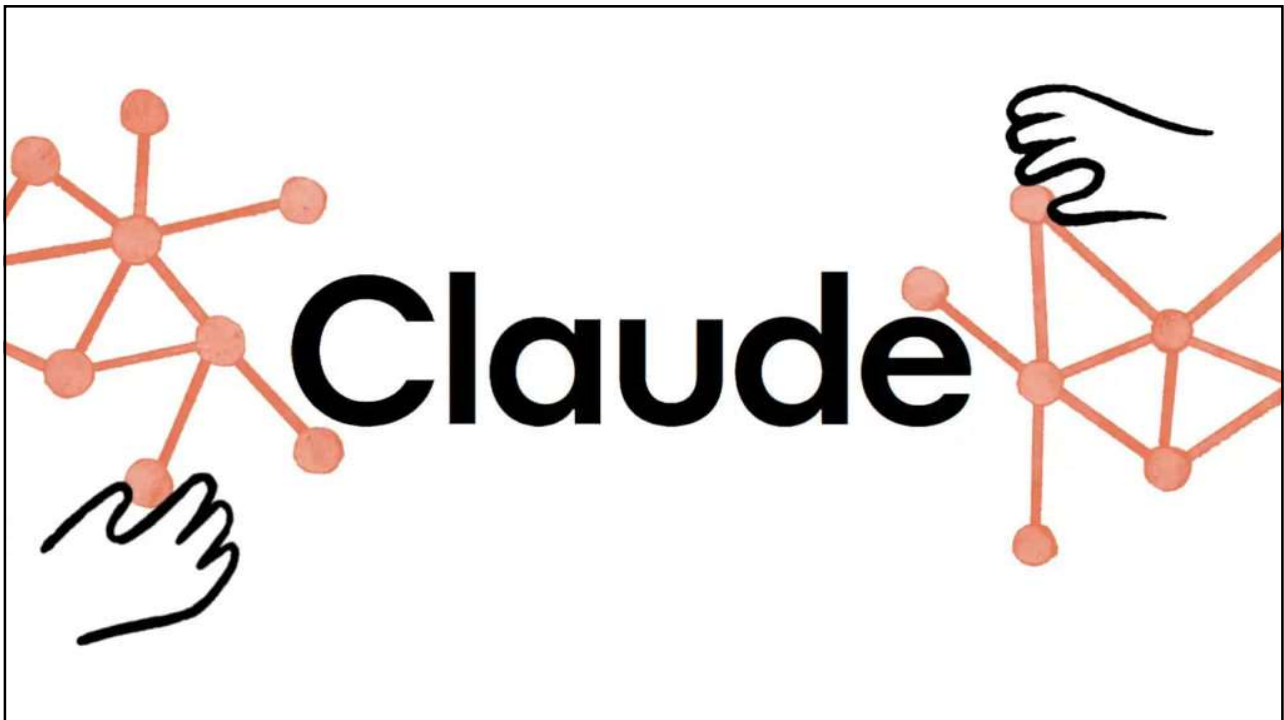| STUDENT INTERESTS	VISUAL TEACHING	UNIVERSAL DESIGN
ASSIGNMENTS	TASK ANALYSIS	SPOON THEORY
DIFFERENTIATION	SOCIAL SCRIPTS	EXPLAIN TO ME

34

MEET LUDIA

**YOUR AI-POWERED
UNIVERSAL DESIGN FOR LEARNING
PARTNER**

Designed by Beth Stark
and Jérémie Rostan

http://bit.ly/LUDIA_FYI

35

36

37

Custom GPTs

38

Calm Companion

By Craig Warren Smith

A supportive guide for self-regulation, tailored for school-aged students.

39

Location Preparation

By Craig Warren Smith

Helps people prepare for new environments visually and descriptively.

40

Tools for students

41

Room Tidy Assistant

By Craig Warren Smith

Helps organise room cleanup via photo analysis

42

43

Goblin Tools

Magic ToDo

https://goblin.tools

44

45

https://coach.microsoft.com/webapp

46

Levels of AGI

Performance (rows) x Generality (columns)	Narrow _clearly scoped task or set of tasks_	General _wide range of non-physical tasks, including metacognitive abilities like learning new skills_
Level 0: No AI	**Narrow Non-AI** calculator software; compiler	**General Non-AI** human-in-the-loop computing, e.g., Amazon Mechanical Turk
Level 1: Emerging _equal to or somewhat better than an unskilled human_	**Emerging Narrow AI** GOFAI[4]; simple rule-based systems, e.g., SHRDLU (Winograd, 1971)	**Emerging AGI** ChatGPT (OpenAI, 2023), Bard (Anil et al., 2023), Llama 2 (Touvron et al., 2023)
Level 2: Competent _at least 50th percentile of skilled adults_	**Competent Narrow AI** toxicity detectors such as Jigsaw (Das et al., 2022); Smart Speakers such as Siri (Apple), Alexa (Amazon), or Google Assistant (Google); VQA systems such as PaLI (Chen et al., 2023); Watson (IBM); SOTA LLMs for a subset of tasks (e.g., short essay writing, simple coding)	**Competent AGI** not yet achieved
Level 3: Expert _at least 90th percentile of skilled adults_	**Expert Narrow AI** spelling & grammar checkers such as Grammarly (Grammarly, 2023); generative image models such as Imagen (Saharia et al., 2022) or Dall-E 2 (Ramesh et al., 2022)	**Expert AGI** not yet achieved
Level 4: Virtuoso _at least 99th percentile of skilled adults_	**Virtuoso Narrow AI** Deep Blue (Campbell et al., 2002), AlphaGo (Silver et al., 2016, 2017)	**Virtuoso AGI** not yet achieved
Level 5: Superhuman _outperforms 100% of humans_	**Superhuman Narrow AI** AlphaFold (Jumper et al., 2021; Varadi et al., 2021), AlphaZero (Silver et al., 2018), StockFish (Stockfish, 2023)	**Artificial Superintelligence (ASI)** not yet achieved

ChatGPT was released on 30 November 2022.

It is classified as 'Level 1', emerging general intelligence. Equal to, or somewhat better, than an unskilled human.

It already feels like magic.

What will it look like at Level 2? Level 3...4...5?

47

48

49

tiny.cc/PP-onlinefeedback

50