

Name:.....

Defining Artificial Intelligence

What exactly do we mean by Artificial Intelligence? And how is it different to what computers do all the time?

Use the slides provided to work your way through these questions so that you know the key terms necessary to really think about AI properly.

1. Work with a partner to write down in your own words what you think **intelligence** means

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Read the slides dealing with rules based approaches before moving on

2. Write down what is meant by a rules based approach in computing

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3. What can't a rules based approach do?

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4. Give an example of a problem that can be solved by a rules based approach

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Read the slides dealing with definitions of artificial intelligence before moving on

5. Using **only** the information on slides 5, 6, 7, and 8, answer these questions:

a) When did research into AI start?

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b) When did AI start to be used to solve problems?

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c) Give three examples of the sorts of problems AI can be used to solve

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d) When did the widespread use of AI begin?

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e) What do AI systems use data to do?

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f) How much data do AI systems need to work effectively?

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6. Using **slides 5 to 8** write a definition of **Artificial Intelligence**

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Read the slides about Generative AI and Large Language models before answering the next set of questions

7. One important type of AI is Generative AI

a) Give some examples of things Generative AI can be used to create

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b) Explain how Generative AI works. What enables it to create things?

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c) Generative AI models are based on LLMs. Write down the meaning of LLM

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d) Give an example of the use of an LLM

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Question 8 involves investigating a use of Generative AI

There is a new set of slides for this

8. The task is on the slides. You will need to produce a PowerPoint. Make sure you share it with me

9. AI or not AI?

For each of the statements, say whether you think it is a use of AI or not a use of AI

a) A spreadsheet that uses formulas to work out the total cost of a holiday

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b) An online streaming service that recommends films based on viewing habits

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c) A fridge keeping food cold

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d) A teacher marking homework

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e) A customer service chatbot that tries to solve common problems

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f) Filters that adjust photographs on your phone

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Extension activity: One of the breakthroughs in the development of Artificial Intelligence was the success of **Deep Blue**. Create a digital factfile telling the story of Deep Blue. Include images in your work (hint: search for “deep blue computer”)