Name _____ Date _____

AI · Translation and languages

Machines That Translate

Read the big idea. Then fill in the blanks.



Big idea

Translation apps change words from one language to another. The AI learned from millions of sentences that people had already translated. It is useful, but it can miss jokes, idioms, poems and feelings, so a person who knows both languages should check important work.

language **translated** **idioms** **check**

1. Translation changes words into another _____.
2. The AI learned from sentences people had _____.
3. It can get _____ and jokes wrong.
4. A person who knows both languages should _____ it.

Name _____ Date _____

AI · Translation and languages

How Translation Works

Fill in the missing words in the steps.

type **learned** **writes** **check**



You _____ or say a sentence



It uses patterns it _____



It _____ the sentence in the new language



A person can _____ it

Name _____ Date _____

AI · AI in games

Game AI

Read the big idea. Then fill in the blanks.



Big idea

Many games use AI. A computer player in chess or ludo uses AI to choose its moves. Characters in video games use AI to chase, hide or help. Some games watch how you play and make levels easier or harder. Game makers decide how the AI behaves.

moves **characters** **levels** **makers**

1. A computer chess player uses AI to choose its _____.
2. AI makes video game _____ chase or hide.
3. Some games change _____ to suit how you play.
4. Game _____ decide how the AI behaves.

Name _____ Date _____

AI · AI in games

Game Maths

Read and solve.

1. Level 1 gives 250 points and level 2 gives 375. Together that is _____ points.

2. Each coin is worth 15 points. 6 coins are worth _____ points.

3. The AI won 18 of 24 games. It lost _____ games.

4. A game has 9 levels with 4 stars each. There are _____ stars.

Name _____ Date _____

AI · Ethics: who decides?

What Is Ethics?

Read the big idea. Then fill in the blanks.



Big idea

Ethics means thinking about what is right and fair. AI does not choose its own rules. People decide: the companies who build it, the government that makes laws, and the people who use it. Good rules keep AI fair, safe, honest and private.

right **rules** **laws** **safe**

1. Ethics means thinking about what is _____ and fair.
2. AI does not choose its own _____.
3. Governments make _____ about AI.
4. Good rules keep AI fair, _____, honest and private.

Name _____ Date _____

AI · Ethics: who decides?

The School Camera

Read the case. Then answer.

A school wants a camera that recognises every child's face to take attendance. It would save time. But the photos would be stored on a company's computer, and it sometimes mixes up twins.

1. A good point: it saves _____.

2. A worry: the photos are stored by a _____.

3. A mistake it makes: it mixes up _____.

4. Before deciding, the school should ask _____ for their views.

Name _____ Date _____

AI · AI and the environment

AI for the Planet

Read the big idea. Then fill in the blanks.



Big idea

AI can help protect the planet. It studies satellite pictures to spot forest fires and melting glaciers. It predicts floods and saves energy in buildings. But AI also uses a lot of electricity and water in huge data centres. People must use it wisely.

satellite **floods** **energy** **electricity**

1. AI studies _____ pictures to spot forest fires.
2. It can predict _____ so people move to safety.
3. Smart buildings use AI to save _____.
4. Data centres use a lot of _____ and water.

Name _____ Date _____

AI · AI and the environment

Energy Maths

Read and solve.

1. A school has 48 lights. Smart sensors switch off 19. _____ stay on.

2. A data centre uses 350 units on Monday and 285 on Tuesday. That is _____ units.

3. One tree is planted for every 6 children. 72 children plant _____ trees.

4. A family cut its bill from 4,500 rupees to 3,800 rupees. It saved _____ rupees.

Name _____ Date _____

AI · Build a prompt plan

What Is a Prompt?

Read the big idea. Then fill in the blanks.



Big idea

A prompt is what you type or say to a chatbot. A clear prompt gets a better answer. A good prompt says what you want, who it is for, any details and the form of the answer, like a list or a short paragraph. Then you check the answer.

chatbot **clear** **details** **check**

1. A prompt is what you type or say to a _____.
2. A _____ prompt gets a better answer.
3. Good prompts include _____.
4. After the answer, we always _____ it.

Name _____ Date _____

AI · Build a prompt plan

Prompt Words

Match each word to its meaning.

Write the letter in the box.

☐	**1.** prompt	**a)**	what you want to get
☐	**2.** goal	**b)**	a second prompt to improve the answer
☐	**3.** format	**c)**	the shape of the answer, like a list
☐	**4.** audience	**d)**	what you type to a chatbot
☐	**5.** follow-up	**e)**	who the answer is for

ANSWER KEY

Name _____ Date _____

AI · Translation and languages

Machines That Translate

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Big idea

Translation apps change words from one language to another. The AI learned from millions of sentences that people had already translated. It is useful, but it can miss jokes, idioms, poems and feelings, so a person who knows both languages should check important work.

language **translated** **idioms** **check**

1. Translation changes words into another **language** .
2. The AI learned from sentences people had **translated** .
3. It can get **idioms** and jokes wrong.
4. A person who knows both languages should **check** it.

ANSWER KEY

Name _____ Date _____

AI · Translation and languages

How Translation Works

Fill in the missing words in the steps.

type | learned | writes | check



You **type** or say a sentence



It uses patterns it **learned**



It **writes** the sentence in the new language



A person can **check** it

ANSWER KEY

Name _____ Date _____

AI · AI in games

Game AI

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moves **characters** **levels** **makers**

1. A computer chess player uses AI to choose its **moves** .
2. AI makes video game **characters** chase or hide.
3. Some games change **levels** to suit how you play.
4. Game **makers** decide how the AI behaves.

ANSWER KEY

Name _____ Date _____

AI · AI in games

Game Maths

Read and solve.

1. Level 1 gives 250 points and level 2 gives 375. Together that is **625** points.

2. Each coin is worth 15 points. 6 coins are worth **90** points.

3. The AI won 18 of 24 games. It lost **6** games.

4. A game has 9 levels with 4 stars each. There are **36** stars.

ANSWER KEY

Name _____ Date _____

AI · Ethics: who decides?

What Is Ethics?

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right **rules** **laws** **safe**

1. Ethics means thinking about what is **right** and fair.
2. AI does not choose its own **rules** .
3. Governments make **laws** about AI.
4. Good rules keep AI fair, **safe** , honest and private.

ANSWER KEY

Name _____ Date _____

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1. A good point: it saves **time** .

2. A worry: the photos are stored by a **company** .

3. A mistake it makes: it mixes up **twins** .

4. Before deciding, the school should ask **parents** for their views.

ANSWER KEY

Name _____ Date _____

AI · AI and the environment

AI for the Planet

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Big idea

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satellite **floods** **energy** **electricity**

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2. It can predict **floods** so people move to safety.
3. Smart buildings use AI to save **energy** .
4. Data centres use a lot of **electricity** and water.

ANSWER KEY

Name _____ Date _____

AI · AI and the environment

Energy Maths

Read and solve.

1. A school has 48 lights. Smart sensors switch off 19. **29** stay on.

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3. One tree is planted for every 6 children. 72 children plant **12** trees.

4. A family cut its bill from 4,500 rupees to 3,800 rupees. It saved **700** rupees.

ANSWER KEY

Name _____ Date _____

AI · Build a prompt plan

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chatbot **clear** **details** **check**

1. A prompt is what you type or say to a **chatbot** .
2. A **clear** prompt gets a better answer.
3. Good prompts include **details** .
4. After the answer, we always **check** it.

ANSWER KEY

Name _____ Date _____

AI · Build a prompt plan

Prompt Words

Match each word to its meaning.

Write the letter in the box.

d	1.	prompt
a	2.	goal
c	3.	format
e	4.	audience
b	5.	follow-up

a) what you want to get

b) a second prompt to improve the answer

c) the shape of the answer, like a list

d) what you type to a chatbot

e) who the answer is for