Name _____ Date _____

AI · Pictures and patterns

How AI Knows Pictures

Read the big idea. Then fill in the blanks.



Big idea

AI learns to know pictures by looking for patterns: shapes, colours and lines. A cat has pointy ears and whiskers. After seeing many cats, AI can spot a cat in a new photo.

patterns **shapes** **many** **whiskers**

1. AI looks for _____ in pictures.
2. Patterns can be colours and _____.
3. A cat has pointy ears and _____.
4. AI must see _____ pictures to learn.

Name _____ Date _____

AI · Pictures and patterns

Teach the Computer

Read. Then circle true or false.

Saad showed a computer 10 photos of mangoes. All of them were yellow.

1. The computer learned that mangoes are yellow. True False

2. It may not know a green mango. True False

3. Photos of green mangoes would help. True False

4. One photo is enough to learn. True False

Name _____ Date _____

AI · Instructions for robots

Robots Need Instructions

Read the big idea. Then fill in the blanks.



Big idea

A robot cannot guess what we want. People give it instructions, one small step at a time. The robot follows each step in order, exactly as it is written. If a step is wrong, the robot does the wrong thing.

instructions **order** **exactly** **wrong**

1. People give robots _____.
2. A robot follows the steps in _____.
3. A robot does _____ what the steps say.
4. If a step is wrong, the robot does the _____ thing.

Name _____ Date _____

AI · Instructions for robots

Silly Robot

Read. Then circle true or false.

Hamza told the robot: Get bread. Put jam on it. Eat it. He forgot to say: open the jam jar. The robot rubbed the closed jar on the bread!

1. The robot followed the steps exactly. True False

2. Hamza forgot a step. True False

3. The robot knew to open the jar. True False

4. Hamza should add 'open the jar'. True False

Name _____ Date _____

AI · Learning from mistakes

Mistakes Help Us Learn

Read the big idea. Then fill in the blanks.



Big idea

Everyone makes mistakes. When we find a mistake and try again, we learn. AI learns in a similar way. It makes a guess, someone tells it if it is right or wrong, and it gets better.

mistakes **try** **guess** **better**

1. Everyone makes _____.
2. When we make a mistake, we _____ again.
3. AI makes a _____ first.
4. After many tries, AI gets _____.

Name _____ Date _____

AI · Learning from mistakes

Robo Learns

Read. Then circle true or false.

Robo looked at a picture of a cow and said 'horse'. Sana said, 'No, that is a cow.' Robo looked again at the horns and spots. Next time, Robo said 'cow'!

1. Robo was wrong the first time. True False

2. Sana helped Robo learn. True False

3. Robo looked for new clues. True False

4. Robo will always be right now. True False

Name _____ Date _____

AI · AI and animals

AI Helps Animals

Read the big idea. Then fill in the blanks.



Big idea

People use AI to help animals. Cameras in the forest take photos when an animal walks past. AI looks at the photos and says which animal it is. This helps people count animals and keep them safe.

help **photos** **which** **safe**

1. People use AI to _____ animals.
2. Cameras in the forest take _____.
3. AI says _____ animal is in the photo.
4. This helps keep animals _____.

Name _____ Date _____

AI · AI and animals

Smart Collars

Match each helper to what it does.

Write the letter in the box.

☐ 1. forest camera

☐ 2. bird song app

☐ 3. smart cow collar

☐ 4. pet door with a chip

☐ 5. drone over the sea

a) tells which bird is singing

b) spots whales from the sky

c) shows if a cow is unwell

d) takes photos of animals at night

e) opens only for your own cat

Name _____ Date _____

AI · My AI rules

Rules Keep Us Safe

Read the big idea. Then fill in the blanks.



Big idea

Apps, smart speakers and robots can be fun and helpful. We use them with rules. We ask a grown-up first. We keep our name and home private. We check answers. We take breaks.

grown-up **private** **check** **breaks**

1. We ask a _____ first.
2. We keep our name and home _____.
3. We _____ what an app tells us.
4. We take _____ from screens.

Name _____ Date _____

AI · My AI rules

Robo Gets It Wrong

Read. Then circle true or false.

Bilal asked the speaker, "How many legs does a spider have?" It said six. Bilal was not sure. He looked in his book with Baba. A spider has eight legs!

1. The speaker said six. True False

2. The speaker was right. True False

3. Bilal checked in a book. True False

4. A spider has eight legs. True False

ANSWER KEY

Name _____ Date _____

AI · Pictures and patterns

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patterns **shapes** **many** **whiskers**

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instructions **order** **exactly** **wrong**

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mistakes **try** **guess** **better**

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AI · AI and animals

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b	5.	drone over the sea

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grown-up **private** **check** **breaks**

1. We ask a **grown-up** first.
2. We keep our name and home **private** .
3. We **check** what an app tells us.
4. We take **breaks** from screens.

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