Name _____ Date _____

AI · How AI sees, hears and talks

Sensing the World

Read the big idea. Then match each sense to the AI tool.



Perception

Computers use sensors to take in the world: cameras to see, microphones to hear. AI then makes sense of the pictures and sounds, and can answer in words.

Write the letter in the box.

☐	**1.** camera	**a)**	lets AI 'hear' sounds
☐	**2.** microphone	**b)**	lets AI 'see' pictures
☐	**3.** speaker	**c)**	lets AI feel where you tap
☐	**4.** touch screen	**d)**	lets AI talk back

Name _____ Date _____

AI · How AI sees, hears and talks

Seeing With AI

Fill in the blanks.

patterns **faces** **signs** **pixels**

1. A photo is made of tiny dots called _____.
2. AI looks for _____ in the dots.
3. Phones can find _____ in a photo.
4. Self-driving cars read road _____.

Name _____ Date _____

AI · How AI sees, hears and talks

Hearing and Talking

Circle true or false.

1. Voice helpers turn your speech into text. True False

2. AI understands every accent perfectly. True False

3. Translators can change Urdu into English. True False

4. AI talks because it has a real mouth. True False

5. Speaking clearly helps AI understand you. True False

Name _____ Date _____

AI · How AI sees, hears and talks

Real or Made by AI?

Read and answer.

AI can now make pictures, voices and videos that look and sound real but are not. We call these AI-made or fake.

1. If a video shows a cat driving a bus, it may be _____.

2. Before sharing, we should _____ if it is real.

3. We should ask a _____ when unsure.

Name _____ Date _____

AI · How AI sees, hears and talks

Design a Helper

Design an AI helper for your school.

My AI helper

It sees using: _____

It hears using: _____

It helps by: _____

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Name _____ Date _____

AI · How AI sees, hears and talks

Pixels Up Close

Read and answer.

Zoom into a photo on a phone and you will see tiny squares. Each square is a pixel with one colour.

1. A pixel is a tiny _____.

2. Each pixel has one _____.

3. A photo has _____ of pixels.

Name _____ Date _____

AI · How AI sees, hears and talks

Pixel Art

Colour squares to make a simple picture, like a heart or a smiley.

My pixel picture (use the squares)

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Name _____ Date _____

AI · How AI sees, hears and talks

Speech to Text

Number the steps in order.

1. The AI turns the sound into words. _____
2. You speak into the microphone. _____
3. The AI finds an answer. _____
4. The speaker reads the answer aloud. _____

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Name _____ Date _____

AI · How AI sees, hears and talks

Sensors Everywhere

Match each machine to its sensor.

Write the letter in the box.

☐	1. automatic door	a)	uses the front camera
☐	2. phone face unlock	b)	senses people walking near
☐	3. smart speaker	c)	senses how close the wall is
☐	4. car parking helper	d)	uses a microphone

Name _____ Date _____

AI · How AI sees, hears and talks

Think Like a Scientist

Answer the questions.

1. AI sees with a _____.

2. AI hears with a _____.

3. A photo is made of _____.

4. AI-made videos can look _____.

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ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Sensing the World

Read the big idea. Then match each sense to the AI tool.



Perception

Computers use sensors to take in the world: cameras to see, microphones to hear. AI then makes sense of the pictures and sounds, and can answer in words.

Write the letter in the box.

b	1.	camera
a	2.	microphone
d	3.	speaker
c	4.	touch screen

a) lets AI 'hear' sounds

b) lets AI 'see' pictures

c) lets AI feel where you tap

d) lets AI talk back

ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Seeing With AI

Fill in the blanks.

patterns **faces** **signs** **pixels**

1. A photo is made of tiny dots called **pixels** .
2. AI looks for **patterns** in the dots.
3. Phones can find **faces** in a photo.
4. Self-driving cars read road **signs** .

ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Hearing and Talking

Circle true or false.

1. Voice helpers turn your speech into text. **True** False

2. AI understands every accent perfectly. True **False**

3. Translators can change Urdu into English. **True** False

4. AI talks because it has a real mouth. True **False**

5. Speaking clearly helps AI understand you. **True** False

ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Real or Made by AI?

Read and answer.

AI can now make pictures, voices and videos that look and sound real but are not. We call these AI-made or fake.

1. If a video shows a cat driving a bus, it may be **AI-made** .

2. Before sharing, we should **check** if it is real.

3. We should ask a **grown-up** when unsure.

ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Design a Helper

Design an AI helper for your school.

My AI helper

Drawings will vary.

It sees using: _____

It hears using: _____

It helps by: _____

Answers will vary.

ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Pixels Up Close

Read and answer.

Zoom into a photo on a phone and you will see tiny squares. Each square is a pixel with one colour.

1. A pixel is a tiny **square** .
2. Each pixel has one **colour** .
3. A photo has **millions** of pixels.

ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Pixel Art

Colour squares to make a simple picture, like a heart or a smiley.

My pixel picture (use the squares)

Drawings will vary.

ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Speech to Text

Number the steps in order.

1. The AI turns the sound into words. 2
2. You speak into the microphone. 1
3. The AI finds an answer. 3
4. The speaker reads the answer aloud. 4

ANSWER KEY

Name _____ Date _____

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Sensors Everywhere

Match each machine to its sensor.

Write the letter in the box.

b	1.	automatic door
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c) senses how close the wall is

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ANSWER KEY

Name _____ Date _____

AI · How AI sees, hears and talks

Think Like a Scientist

Answer the questions.

1. AI sees with a **camera** .

2. AI hears with a **microphone** .

3. A photo is made of **pixels** .

4. AI-made videos can look **real** .