

✦ ACTIVITY WORKBOOK ✦



AI Choices: Think, Check, Create

Find words, solve puzzles, crack codes and make smart AI choices.

11 Activities

NEW WHAT'S INSIDE?



Meet the AI Models



Explore the AI World



Inside an AI Tool



AI World Word Search



Inside AI Crossword



Untangle More AI Words



Keep It Private!



Match the Clear Prompt



AI Photo-Sorter Math



Crack the AI Safety Code



Design Your AI Helper



STUDENT INFORMATION

NAME

DATE

CLASS



Many AI tools use an **AI model** trained on examples to find patterns. Different models work with different kinds of information. Some can work with more than one kind.



Language models

Work with words. They can help write, answer questions and **translate** text into another language.



Image and video models

Work with pictures or video clips. Some find details in them; others create new pictures or clips.



Speech models

Work with spoken words. They can turn speech into text or create spoken audio. Some can translate speech.

What is a large language model (LLM)?

A language model with many learned settings, trained on very large amounts of text. Many chat tools use LLMs.

How does it write an answer?

A chat-style language model predicts what piece of text could come next, using your prompt and the text so far. It adds that piece and repeats. This is often called **next-word prediction**. More precisely, it predicts **tokens**: a token can be a whole word, part of a word or punctuation.



Always double-check AI answers

AI can **hallucinate**: give a convincing answer that is wrong or made up. A fluent answer is not proof that it is true.

Keep a human in the loop. A person reviews the AI's work before using or sharing it. Check facts with a reliable source, check calculations yourself, and ask a teacher or trusted adult when you are unsure.



AI means **artificial intelligence**. Here are some AI names and technologies you may hear about.

OpenAI	The company that makes ChatGPT.
ChatGPT	An AI assistant made by OpenAI that can respond in a conversation.
Example	One item used to show what something is like. AI training can use many examples.
Chatbot	A program that chats with people. Some chatbots use AI.
Robot	A machine that carries out actions. Some robots use AI; others follow fixed instructions.
Vision	Computer vision helps AI find information in pictures or videos.
Speech	Spoken words. Speech AI can turn spoken words into text.
Token	A small piece of text, such as part of a word, a whole word or punctuation.
Training	The process of helping an AI model learn patterns from examples.
Data	Information, such as pictures, numbers or words.
Audio	Sound that a computer can record or process.
Image	A picture that an AI tool may analyze or create.

Use these meanings to help with the puzzles. No AI account is needed.





People build and train AI tools. They can make mistakes, so people still need to check their results.

Context	The surrounding words or details that help explain a meaning.
Prompt	The question or instruction you give an AI tool.
Model	A computer system trained to find patterns and produce results.
Output	The result an AI tool produces, such as text or a picture.
Bias	An unfair pattern in AI results, such as treating one group differently without a good reason.
Pattern	Something that repeats or follows a rule.
Sensor	A device that detects something, such as light, sound or movement.
Privacy	Keeping personal information protected.
Algorithm	A set of steps a computer follows to do a task.
Predict	To estimate an answer or what might happen using available information.
Generate	To produce something, such as text, a picture or music.
Label	A name or tag added to an example, such as calling a picture a cat.

Use these meanings to help with the puzzles. No AI account is needed.

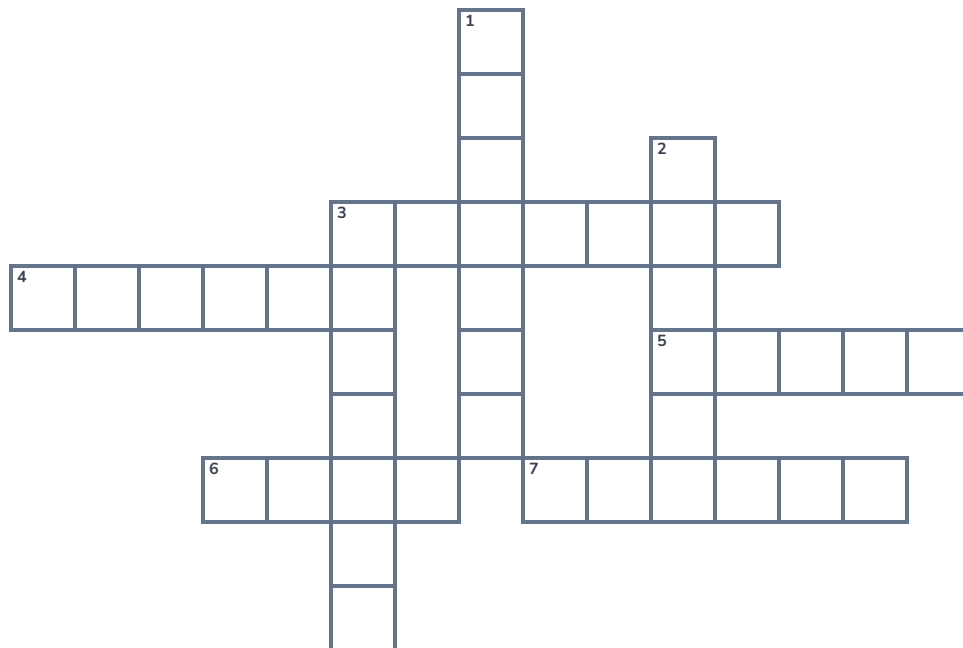
Find and circle all the hidden words in the grid.

S	F	K	B	Q	B	C	H	T	X	N	S
P	E	S	Z	N	H	W	V	W	K	V	E
E	B	C	H	A	T	B	O	T	T	R	Y
E	T	C	T	O	P	E	N	A	I	S	X
C	R	G	Q	T	D	A	T	A	P	V	E
H	P	O	X	S	R	C	G	D	M	X	O
T	L	Y	B	D	Y	A	K	I	A	O	T
L	O	G	B	O	C	H	I	M	P	Z	A
I	F	K	B	Z	T	A	P	N	Y	B	C
F	E	D	E	I	M	L	K	X	I	X	A
P	R	D	V	N	E	Y	M	L	O	N	Y
L	V	P	Z	V	I	S	I	O	N	Q	G

FIND THESE WORDS

**OPENAI CHATGPT EXAMPLE CHATBOT ROBOT VISION SPEECH TOKEN TRAINING
DATA**

Fill in the crossword using the clues below.



ACROSS

3. Something that repeats or follows a rule.
4. A device that detects light, sound or movement.
5. A computer system trained to find patterns and produce results.
6. An unfair pattern in AI results.
7. The result an AI tool produces.

DOWN

1. Surrounding words or details that help explain a meaning.
2. A question or instruction given to an AI tool.
3. Keeping personal information protected.





Untangle More AI Words

AI Choices: Think, Check, Create

Unscramble each word. Write the correct spelling on the line.

1. DIOAU

2. GEMAI

3. RITHMALGO

4. DICTPRE

5. ERATENG

6. BELLA

7. SORNES

8. VACYPRI



You are asking an AI tool for a penguin poem. Sort these example labels into the two boxes. Never write your real personal information here.

Word Bank: your password a silly rhyme the poem length your home address a made-up penguin name your phone number

Okay for This Prompt

Keep Private





Match the Clear Prompt

AI Choices: Think, Check, Create

Match each item on the left with the correct item on the right. Write the matching letter in the blank.

1. _____ A short penguin poem
2. _____ A simple explanation of clouds
3. _____ A poster about keeping passwords private
4. _____ A story about a robot gardener

- A. Suggest a short poster slogan about never sharing passwords.
- B. Write a four-line poem about a penguin who loves dancing.
- C. Write a short story about a robot that helps water a school garden.
- D. Explain how clouds form in three sentences for a child.



Solve each problem. Show your work in the space provided.

1. A team has 4 folders with 15 example photos in each folder. How many example photos does it have altogether?

Answer: _____

2. An AI photo sorter gives each of 30 new photos one label. It labels 23 photos correctly. How many labels are wrong?

Answer: _____

3. An updated sorter labels 27 of the same 30 photos correctly, compared with 23 before. How many more labels are correct now?

Answer: _____

4. The team prepares 3 sets of 12 new photos for another test. How many new photos does it prepare?

Answer: _____

5. Six students share 48 AI-generated labels equally to check. How many labels does each student check?

Answer: _____





Crack the AI Safety Code

AI Choices: Think, Check, Create

Use the key below to decode each secret message. Write the letters on the blank lines.

KEY:

1=A 2=B 3=C 4=D 5=E 6=F 7=G 8=H 9=I 10=J 11=K 12=L 13=M

14=N 15=O 16=P 17=Q 18=R 19=S 20=T 21=U 22=V 23=W 24=X 25=Y 26=Z

MESSAGE 1

3 8 5 3 11 / 20 8 5 / 6 1 3 20 19

Decoded: _____

MESSAGE 2

11 5 5 16 / 16 1 19 19 23 15 18 4 19 / 16 18 9 22 1 20
5

Decoded: _____

MESSAGE 3

7 9 22 5 / 3 12 5 1 18 / 16 18 15 13 16 20 19

Decoded: _____





Design Your AI Helper

AI Choices: Think, Check, Create

Draw an AI helper you would like to invent. Give it a name and label one job it could help with.

 *Think of a helper for a garden, a library or a classroom. Add one thing a person should still check.*

Check Your Answers Online!

Scan the QR code or visit the link below to check your answers and find more fun activities on Shark Learning.



sharklearning.com/workbook/ai-choices-think-check-create-grades-4-6

or scan the QR code above

Keep practising — great things take time! ★