

# How Does AI Learn?

Reading Worksheet — Level C |  
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AI learns by **practice**! Just like you practice reading or math, AI practices too. It looks at lots of **data**. Data is information — like pictures, words, or numbers. The more data AI looks at, the better it gets. It is like studying for a test. The more you study, the more you know!



AI looks for **patterns** in data. A pattern is something that happens again and again. For example, AI looks at many cat pictures. It starts to **recognize** what a cat looks like. If AI makes a mistake, it **corrects** itself. It tries again and again until it gets it right.

This learning is called **training**. AI needs special data called **labeled** data. Labeled data has the right answers already marked. For example, each picture has a word under it that says what it is. This helps AI learn faster. People have to do this labeling work first.

After lots of training, AI gets very **accurate**. Accurate means it gets the right answer most of the time. AI **adjusts** a little bit after each mistake. It gets better and better. Think of it like learning to ride a bike. You fall down at first, but you keep trying!

Learning is a long **process** for AI. It needs to look at millions of pictures or words before it is ready. But once it is done, AI can work very fast. It can help people every day — like answering questions or finding information quickly.

## A. Vocabulary

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|-------------------|--|
| 1. practice ____  | a. makes small changes to improve                    |
| 2. data ____      | b. correct and without mistakes                      |
| 3. patterns ____  | c. marked with information to show what something is |
| 4. recognize ____ | d. things that repeat in the same way                |
| 5. corrects ____  | e. fixes a mistake                                   |
| 6. training ____  | f. a series of steps to complete a task              |
| 7. accurate ____  | g. to do something many times to get better at it    |
| 8. labeled ____   | h. information stored or used by a computer          |
| 9. adjusts ____   | i. to identify something you have seen before        |
| 10. process ____  | j. the process of teaching AI using examples         |

## B. True or False

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1. AI learns by looking at lots of data. \_\_\_\_
2. Data can only be numbers, not pictures or words. \_\_\_\_
3. AI looks for patterns in data. \_\_\_\_
4. AI never makes mistakes while learning. \_\_\_\_
5. Training means teaching AI with many examples. \_\_\_\_
6. AI gets more accurate after training. \_\_\_\_
7. A teacher helps show AI the right answers. \_\_\_\_
8. AI learns to do better when it makes mistakes. \_\_\_\_
9. AI can work very fast after it is trained. \_\_\_\_

## C. Fill in the Blanks

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**Word Bank:** data, patterns, corrects, training, accurate, teacher, adjusts

1. AI learns by looking at lots of \_\_\_\_\_.
2. AI tries to find \_\_\_\_\_ in the data it sees.
3. When AI gets an answer wrong, it \_\_\_\_\_ itself.
4. Teaching AI with examples is called \_\_\_\_\_.
5. After training, AI becomes more \_\_\_\_\_ at its job.

## D. Comprehension Questions

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1. What is data?
2. What does AI look for when it studies data?
3. What happens when AI makes a mistake during training?
4. What does a teacher do to help AI learn?
5. Why does AI training take a long time?

## E. Discussion Questions

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1. How is the way AI learns similar to how you learn in school?
2. What kinds of data do you think AI uses to learn to speak?
3. Is it okay for AI to make mistakes while learning? Why?

# Answer Key

*How Does AI Learn? — Teacher Reference Only*

**A. Vocabulary:** 1-g, 2-h, 3-d, 4-i, 5-e, 6-j, 7-b, 8-c, 9-a, 10-f

**B. True/False:** 1-T, 2-F, 3-T, 4-F, 5-T, 6-T, 7-T, 8-T, 9-T

**C. Fill Blanks:** 1-data, 2-patterns, 3-corrects, 4-training, 5-accurate

**D. Comprehension:**

1. Information like words, pictures, or numbers
2. Patterns — things that repeat
3. It corrects itself and adjusts
4. The trainer shows AI the right answers
5. It needs to look at millions of examples