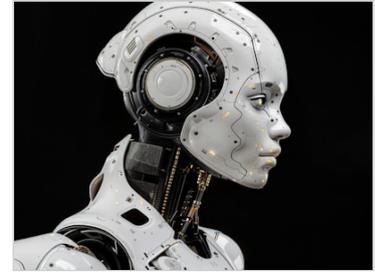


# What Is Artificial Intelligence?

Reading Worksheet — Level F | [tahricteaches.com](http://tahricteaches.com)



**Artificial intelligence**, or AI, refers to computer systems that perform tasks normally requiring human intelligence — including recognizing speech, translating languages, and making complex decisions. AI does not think like humans; instead, it uses patterns found in large amounts of data to produce results that appear **intelligent**. Today, AI is one of the fastest-growing and most influential fields in modern technology.

Modern AI is built on **machine learning**, where algorithms analyze large datasets to identify patterns. Instead of following fixed rules, these systems improve with every example they process, guided by an **algorithm** that adjusts itself based on errors. A **spam** filter, for instance, learns to block unwanted emails by studying thousands of messages and becomes increasingly **accurate** over time.

AI is deeply **embedded** in everyday life, often without people realizing it. Streaming services recommend shows, voice assistants answer questions, and online stores suggest products based on past behavior. These systems process billions of requests daily — filtering **spam**, personalizing content, and making instant decisions without any human involvement.

AI is also transforming professional fields at a rapid pace. In medicine, AI **diagnoses** diseases from medical scans — sometimes outperforming experienced doctors. Engineers use AI tools to **optimize** traffic flow, power grids, and supply chains, changing how entire industries plan and operate.

Despite its power, AI has real **limitations**. Systems trained on biased data can produce unfair outcomes. AI lacks human judgment and **empathy** — it cannot reason morally or truly understand context. As AI becomes more powerful, society must carefully decide how to use it responsibly and **ethically**.

## A. Vocabulary

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- |                                  |   |
|----------------------------------|---|
| 1. artificial intelligence _____ | a. the ability to understand others' feelings                   |
| 2. machine learning _____        | b. identifies a disease or problem                              |
| 3. accurate _____                | c. things a system cannot do well                               |
| 4. embedded _____                | d. correct and without errors                                   |
| 5. algorithm _____               | e. a step-by-step process a computer follows to solve a problem |
| 6. spam _____                    | f. in a way that follows rules of right and wrong               |
| 7. diagnoses _____               | g. computer systems that do human-like thinking tasks           |
| 8. limitations _____             | h. AI that learns from data, not fixed rules                    |
| 9. empathy _____                 | i. built deeply into something                                  |
| 10. ethically _____              | j. unwanted messages or emails sent in large numbers            |

## B. True or False

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1. AI stands for artificial intelligence. \_\_\_\_
2. Traditional software adapts and learns from experience just like AI. \_\_\_\_
3. Machine learning uses data to identify patterns and make predictions. \_\_\_\_
4. A machine learning model improves with more training data. \_\_\_\_
5. Netflix's recommendation system is an example of AI. \_\_\_\_
6. AI diagnostic tools in medicine are completely unreliable. \_\_\_\_
7. AlphaFold helped solve problems in protein structure prediction. \_\_\_\_
8. AI systems have genuine consciousness and understanding. \_\_\_\_
9. AI can reflect biases present in its training data. \_\_\_\_

## C. Fill in the Blanks

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**Word Bank:** cognition, adapt, sophisticated, embedded, relevant, applications, consciousness

1. AI refers to systems that perform tasks associated with human \_\_\_\_\_.
2. Unlike rigid software, AI systems are designed to \_\_\_\_\_ and improve.
3. The more data a model is trained on, the more \_\_\_\_\_ it becomes.
4. AI is deeply \_\_\_\_\_ in everyday technologies like search engines.
5. Many people use AI \_\_\_\_\_ without realizing they are doing so.

## D. Comprehension Questions

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1. What makes AI different from traditional software?
2. How does machine learning work?
3. Give two examples of AI in everyday consumer technology.
4. How is AI being used in the field of medicine?
5. What are two ethical concerns about AI mentioned in the article?

## E. Discussion Questions

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1. Should AI be used to make important decisions about people's lives? Why or why not?
2. What responsibilities do programmers have when building AI systems?
3. How might AI change the kind of work humans do in the next twenty years?

# Answer Key

*What Is Artificial Intelligence? — 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-T, 5-T, 6-F, 7-T, 8-F, 9-T

**C. Fill Blanks:** 1-cognition, 2-adapt, 3-sophisticated, 4-embedded, 5-applications

**D. Comprehension:**

1. AI learns from data; traditional software follows fixed rules
2. It finds patterns in large amounts of data
3. Any two: streaming, voice assistants, online stores
4. It diagnoses diseases from medical images accurately
5. Biased data and lack of human judgment