

Name: _____ Date: _____

Answer Key: Operation Robot Brain: A 2nd Grade AI Investigation

Student apprentices sort data and train digital helpers in this hands-on check for understanding during your technology station rotation.

1. Imagine you are teaching a robot to recognize fruit. If you show it 100 pictures of apples, what is the robot doing?

Answer: B) Learning from data

AI computers learn by looking at many examples, which is called training with data.

2. True or False: A computer uses 'Artificial Intelligence' to solve problems in a way that mimics how humans think.

Answer: A) True

AI stands for Artificial Intelligence, which means making machines smart like people.

3. When a smart music player suggests a new song you might like, it is using a _____ system.

Answer: B) Recommendation

Recommendation systems look at what you liked before to suggest something new you'll enjoy.

4. Which of these is an example of an AI using 'computer vision' in the real world?

Answer: C) A camera identifying a person's face to unlock a phone

Computer vision is a type of AI that helps machines 'see' and understand pictures or videos.

5. True or False: AI machines can learn to get better at a task the more they practice it.

Answer: A) True

This is called Machine Learning; the AI improves its accuracy as it processes more information.

6. A _____ is a smart robot that can talk to you and answer your questions using AI.

Answer: B) Chatbot

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Chatbots use AI language models to understand what we say and type back to us.

7. If an AI is helping a delivery robot find the best path across a busy park, it is using...

Answer: B) Problem-solving

AI can use logic to solve problems, like finding the quickest and safest route.

8. Computer models called _____ networks are inspired by the way the human brain works.

Answer: C) Neural

Neural networks are layers of math that try to copy how our brain cells connect.

9. True or False: Robots are the only things that can use Artificial Intelligence.

Answer: B) False

AI is software. It can live in websites, apps, and phones, not just in metal robots.

10. How does an AI artist know how to draw a picture of a space cat?

Answer: C) It studied thousands of other drawings to learn patterns

Generative AI learns the patterns of how things look by analyzing many images created by humans.