Name: _____   Date: _____

Smart Machines AI Literacy 7th Grade Quiz

Decode how algorithms mimic biological neurons and predict patterns using real-world data science concepts beyond basic coding.

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1. Which component of Artificial Intelligence is specifically designed to mimic the interconnected structure of the human brain to recognize complex patterns?

    A.   Linear regression

    B.   Neural networks

    C.   Hard-coded loops

    D.   Data storage drives

2. True or False: Machine learning requires a human to manually write a new rule for every single decision the computer makes.

    A.   True

    B.   False

3. When a computer uses logic to draw a conclusion or solve a riddle, it is demonstrating the AI concept of _____.

    A.   Reasoning

    B.   Hardware

    C.   Social Media

    D.   Electricity

4. A weather app that looks at ten years of atmospheric data to predict tomorrow's rain is an example of which AI subset?

    A.   Virtual Reality

    B.   Mechanical Engineering

    C.   Machine Learning

    D.   Circuit Design

5. The process of AI getting better at a task (like identifying different types of plants) as it looks at more images is called _____.

    A.   Deleting

    B.   Typing

    C.   Formatting

    D.   Learning

6. True or False: AI 'reasoning' allows a system to analyze a situation and pick a path to reach a specific goal.

    A.   True

B. False

7. Which of the following is a real-world application of AI in the field of transportation?

A. A standard bicycle

B. An autonomous delivery drone

C. A manual gear shift

D. A paper map

8. In healthcare, AI is often used to help doctors analyze medical scans to find _____.

A. Old emails

B. Social trends

C. Early signs of disease

D. Hospital bills

9. True or False: Facial recognition systems use neural networks to analyze the patterns of pixels in an image.

A. True

B. False

10. What makes AI different from a traditional computer program that follows a fixed list of instructions?

A. It can adapt and learn from data

B. It requires more batteries

C. It only works on paper

D. It does not use any electricity