Name: _____   Date: _____

Neon Jellyfish AI Safari: Advanced 3rd Grade Quest

Scholars design smart underwater sensors and analyze digital logic patterns to solve complex oceanic puzzles in this computer science challenge.

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1. Imagine you are building a 'Smart Trash Bin' for the school playground. To help the AI recognize a plastic bottle versus a banana peel, what is the first and most important step?

    A.   Give the bin a catchy name and bright colors
    B.   Collect hundreds of photos of both bottles and peels to show the computer
    C.   Plug the bin into the wall so it has enough electricity
    D.   Tell the bin to guess based on how heavy the trash feels

2. If an AI is trained using a 'Neural Network,' it is actually using a tiny physical brain made of organic cells hidden inside the computer chip.

    A.   True
    B.   False

3. A weather-predicting AI looks at years of temperature data. When it finds a recurring 'shape' in the data that leads to rain, this is called finding a _____.

    A.   Cloud
    B.   Secret
    C.   Pattern
    D.   Mistake

4. An AI is learning to play a new video game. Every time it gets a 'Game Over,' it tries a different path. This process of learning from trial and error is a form of:

    A.   Human Instinct
    B.   Machine Learning
    C.   Hardware Repair
    D.   Data Deletion

5. AI systems can sometimes make mistakes or show 'bias' if the data scientists gave them incomplete or unfair information during training.

    A.   True
    B.   False

6. When a computer uses AI to look at a photo of a forest and identifies a rare bird that humans missed, it is using a skill called _____ Recognition.

    A.   Sound
    B.   Image
    C.   Keyboard

D. Battery

7. Why would a farmer use a 'Smart Tractor' with AI instead of a regular tractor?

A. Because the smart tractor can tell jokes to the farmer

B. Because it uses sensors to see which specific plants need water, saving resources

C. Because regular tractors cannot drive on dirt

D. Because the AI tractor is made of solid gold

8. Before an AI can help doctors, it must be 'trained.' In computer science, the information we give the AI to learn from is called _____.

A. Stories

B. Memory

C. Data

D. Cables

9. An AI that can write a poem behaves exactly like a human because it has feelings and understands the meaning of the words it chooses.

A. True

B. False

10. If you wanted to design an AI to help protect the ocean, which task would require the most 'Synthesis' (combining different ideas)?

A. Counting how many fish are in one photo

B. Turning the camera on and off

C. Analyzing water temperature, fish health, and boat traffic to find the safest place for a coral reef

D. Changing the color of the sub-marine to blue