**Name:** _____ **Date:** _____

# Answer Key: Glitching Garden: Pre-K AI Logic and Sorting Quest

Tiny techies evaluate how robots 'think' and make choices using visual logic puzzles and digital sorting scenarios.

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**1. A robot named Pip is sorting socks. If Pip sees a blue sock with polka dots, but his brain only knows 'Solid Blue,' what will Pip do?**

**Answer:** B) Stop and get confused because it's different

High-level AI evaluation for Pre-K involves understanding that machines struggle with data that doesn't fit their specific training rules.

**2. If we teach a computer that every round fruit is an apple, the computer will think an orange is an apple.**

**Answer:** A) True

AI only knows what we show it; if it's taught a wrong rule, it will make a wrong choice based on that logic.

**3. A smart car sees a person wearing a costume that looks like a giant bush. The car might think the person is a ____.**

**Answer:** B) Plant

This requires the student to analyze how sensors perceive shapes versus reality, a key concept in computer vision.

**4. If you want a robot to learn how to find 'happy' faces, what should you show it?**

**Answer:** B) Pictures of many different smiles

Machine learning requires positive examples (training data) to recognize specific patterns like emotions.

**5. A robot can feel if a story is sad just like a human can.**

**Answer:** B) False

This evaluates the student's ability to distinguish between processing data (AI) and having biological feelings (Human).

**6. To make a robot clean a messy room, we must give it very clear ____.**

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**Answer:** A) Instructions

AI requires precise algorithmic input to perform tasks; it cannot guess intentions without programmed instructions.

**7. Which of these is a 'smart' choice a grocery store robot might make?**

**Answer:** B) Stopping when it sees a baby in its path

This focuses on safety-based decision-making and pattern recognition in complex environments.

**8. A computer 'brain' is made of the same squishy stuff as your brain.**

**Answer:** B) False

Distinguishes between biological neural networks and artificial silicon-based processors.

**9. If a robot draws a picture, it is using its ____ to follow a pattern.**

**Answer:** A) Code

Reinforces the concept that AI creativity is based on underlying mathematical patterns and code structures.

**10. Why would an AI think a toy tiger is a real tiger?**

**Answer:** B) It sees the same orange and black stripes

Encourages evaluation of image recognition technology based on specific visual features rather than context.