

Name: _____ **Date:** _____

Your Detective Kit: Logic Quest for Pre-K Explorers

Examine missing snack clues and animal patterns using multi-step reasoning to build the investigative foundations used by real-life forensic scientists.

1. You see muddy paw prints on the floor and a missing dog treat. You find your dog, Barnaby, with mud on his paws. What is the most likely reason the treat is gone?

- A. A bird flew inside and took it
- B. Barnaby walked inside and ate it
- C. The treat turned into a toy
- D. It started raining inside the house

2. If all squirrels love acorns, and Nutty is a squirrel, then Nutty must love acorns.

- A. True
- B. False

3. Look at this patterns: Red Ball, Blue Block, Red Ball, Blue Block. If you want to keep the pattern going, what comes next?

- A. A Yellow Duck
- B. A Blue Block
- C. A Red Ball
- D. A Green Grass

4. You are building a tower. It falls every time you put the heavy big block on the tiny small block. How can you change your plan to make it stay up?

- A. Use more tiny blocks on top
- B. Put the heavy big block on the bottom
- C. Sing a song to the tower
- D. Build it on a soft pillow

5. If you see your friend wearing a raincoat and carrying an umbrella, it is probably a sunny day.

- A. True
- B. False

6. If an ice cube is a 'solid' because it is hard, and water is a 'liquid' because it flows, what is a rock?

- A. A liquid
- B. A juice
- C. A solid
- D. A cloud

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7. You want to draw a picture, but the blue crayon is broken. You have yellow and green. What is the smartest way to finish your sky?

- A. Give up and go take a nap
- B. Cry until someone finds a blue one
- C. Use the broken pieces or decide a new color
- D. Throw the paper in the trash

8. Because my cat has four legs and my dog has four legs, all animals with four legs must be dogs.

- A. True
- B. False

9. A key opens a lock. A hand opens a jar. What does a light switch 'open' or turn on?

- A. A door
- B. A lamp
- C. The sink
- D. A book

10. The wind is blowing hard. Your hat stays on, but your sister's hat flies away. Why did hers fly away but yours stayed?

- A. Yours is magic
- B. The wind likes your hat more
- C. Your hat has a chin strap and hers doesn't
- D. Hats only fly away on Tuesdays