

Matter Detectives

Observe properties, make groups, and find patterns.

2-PS1-1 "Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties. Clarification Statement: Observations could include color, texture, hardness, and flexibility..."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the words that tell how Jada tested the objects. Circle each group of objects that shared a property.

Jada's Sorting Test

- ① Jada wanted to sort some classroom objects by what she could observe. She made a plan. First, she would look at color and feel texture. Next, she would gently bend each item and press it with a fingernail.
- ② Jada tested a blue plastic spoon, a red paper strip, a smooth metal key, and a soft cloth square. The spoon and key felt hard. The paper strip and cloth square bent easily, so they were flexible.
- ③ She put the spoon and key in a hard group. She put paper and cloth in a flexible group. Jada noticed a pattern: objects made from different materials can share a property. She wrote down her observations.

2 ANSWER WITH EVIDENCE Use the passage

1 What two properties did Jada plan to observe first?

2 Which objects did Jada classify as hard, and what property did they share?

3 What pattern did Jada notice about materials and properties?

3 YOUR TURN Your own words

Choose three safe objects near you. Write a plan that tells two properties you will observe, then sort the objects into one or more groups and name the shared property for each group.

PART 1 • READ AND MARK

Underline the words that tell how Jada tested the objects. Circle each group of objects that shared a property. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What two properties did Jada plan to observe first?	Color and texture.
2	Which objects did Jada classify as hard, and what property did they share?	The plastic spoon and metal key. They both felt hard.
3	What pattern did Jada notice about materials and properties?	Objects made from different materials can share a property.

PART 3 • YOUR TURN (SAMPLE ANSWER)

I will observe texture and flexibility by feeling each object and gently bending it. I sort a rubber band and a thin plastic lid into the flexible group, and a wooden block into the hard group.

Accept any safe objects and observable properties, such as color, texture, hardness, or flexibility. The response should include a plan, a classification, and a property shared by the objects in each group.