

Paper Change Detectives

Observe how a process changes physical properties.

2.6.B “conduct a descriptive investigation to explain how physical properties can be changed through processes such as cutting, folding, sanding, melting, or freezing; and”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the words that tell what changed after cutting, and circle the words that tell what stayed the same. Your marks will help you explain the results of Mia's investigation.

Mia Cuts Paper

- ① Mia investigated how cutting changes a paper square. First, she looked at the whole square. It was blue, smooth, and as wide as her hand. She wrote these properties in her notebook before changing the paper.
- ② Next, Mia used child-safe scissors to cut the square into four smaller pieces. She did not add a new material. After cutting, each piece was still blue and smooth, but it was smaller and had a new shape.
- ③ Mia compared her notes before and after cutting. Cutting changed the paper's size and shape. It did not change its color or smooth texture. Her investigation showed that a process can change some physical properties while other properties stay the same.

2

ANSWER WITH EVIDENCE

Use the passage

1 Which two physical properties of the paper changed when Mia cut it?

2 Which two physical properties stayed the same after cutting?

3 What did Mia compare to find out how cutting changed the paper?

3

YOUR TURN

Your own words

Conduct a folding investigation with a plain paper rectangle. Fold it in half, then fill in the table to describe properties before and after folding and explain what changed.

TIME	SHAPE OR SIZE	TEXTURE	COLOR	WHAT CHANGED?

PART 1 • READ AND MARK

Underline the words that tell what changed after cutting, and circle the words that tell what stayed the same. Your marks will help you explain the results of Mia's investigation. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	Which two physical properties of the paper changed when Mia cut it?	Its size and shape changed.
2	Which two physical properties stayed the same after cutting?	Its blue color and smooth texture stayed the same.
3	What did Mia compare to find out how cutting changed the paper?	She compared her notes from before cutting with her notes after cutting.

PART 3 • YOUR TURN (SAMPLE ANSWER)

TIME	SHAPE OR SIZE	TEXTURE	COLOR	WHAT CHANGED?
Before folding	A long rectangle	Smooth	White	Nothing has changed yet.
After folding	A smaller rectangle, half as wide	Smooth	White	The size and shape changed. The texture and color stayed the same.

Accept accurate observations of a paper rectangle before and after folding. Students should identify at least one changed property, such as size or shape, and at least one property that stayed the same, such as color or texture.