

Matter Detectives

Students sort properties, predict heat and cold changes, and build a parts system.

1.6 "Matter and its properties. The student knows that objects have physical properties that determine how they are described and classified. The student is expected to: classify objects by observable physical properties, including, shape..."

NAME _____

DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 LOOK CLOSELY

a	red	blue	green
b			
c	rough	wet	smooth

2 CHANGE IT

a	freeze	melt	same
b	melt	same	freeze
c	one	parts	hot

HOW TO RUN THIS PAGE

Read every question and each choice aloud while students make one circle in each row. Students use a familiar object, classroom paper, and three paper clips to connect their marks to observable properties, material changes, and organized parts.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • LOOK CLOSELY

SAY “Listen to each question. I will read the choices, then you will circle one answer.”

ROW	SAY	STUDENTS CIRCLE
a	Think of a ripe strawberry. What color is it? I will read the choices: red, blue, green. Circle one.	red
b	Look at the three outlined shapes. Which shape has three sides? I will read the choices: square, triangle, circle. Circle one.	triangle
c	Touch a sheet of classroom paper. Which word tells how it feels? I will read the choices: rough, wet, smooth. Circle one.	smooth

PART 2 • CHANGE IT

SAY “Listen to each question. I will read the choices, then you will circle one answer. For the last row, use three paper clips to make a chain, take it apart, and put it back together.”

ROW	SAY	STUDENTS CIRCLE
a	Ice is heated. What change may happen? I will read the choices: freeze, melt, same. Circle one.	melt
b	Water is cooled until it is very cold. What change may happen? I will read the choices: melt, same, freeze. Circle one.	freeze
c	After you made, took apart, and rebuilt the paper-clip chain, what word tells what the chain is made of? I will read the choices: one, parts, hot. Circle one.	parts

WHAT TO ACCEPT

Part 1 answers are red, triangle, and smooth. Part 2 answers are melt, freeze, and parts; accept the parts response after students link, separate, and relink the three paper clips.