

Model Detectives

Teacher-led model, pattern, comparison, and design check.

K.2 "Scientific and engineering practices. The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs..."

NAME _____

DATE _____

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

1 CIRCLE IT _____

a	yes	no	maybe
b	7	8	9
c	yes	no	maybe

2 MATCH FOLDS _____

A	•	•	•••
B	•	•	•
C	•	•	••

HOW TO RUN THIS PAGE

Use a small paper rectangle as a model near the classroom door, and show a paper bridge made from a strip of paper across two books. Read each prompt aloud and give students time to mark before discussing. Students use a model's size, test data, number patterns, and folds as evidence.

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

PART 1 • CIRCLE IT

SAY “Listen to each question and look at the choices in the row. Circle one answer for each question.”

ROW	SAY	STUDENTS CIRCLE
a	I am holding a small paper model of our classroom door. Is the paper model easier to carry than the real door? Circle yes, no, or maybe.	yes
b	These numbers show a pattern: 2, 4, 6. What number comes next when we add 2 each time? Circle 7, 8, or 9.	8
c	This paper bridge was made to hold three paper clips. In the test, it fell when the third paper clip was added. Does it work as intended? Circle yes, no, or maybe.	no

PART 2 • MATCH FOLDS

SAY “Three paper strip models are the same length. Model A has 1 fold, Model B has 2 folds, and Model C has 3 folds. Draw a line from each letter to the dots that show its number of folds.”

- **A** matches **1 dots**
- **B** matches **2 dots**
- **C** matches **3 dots**

WHAT TO ACCEPT

Circle answers are yes, 8, and no. Match A to 1 dot, B to 2 dots, and C to 3 dots. Accept clear circles and lines that clearly connect each pair.