Day 66: Testing Strength

Sample results

Bridge	Pennies it held
Flat paper	3
Folded paper	28
Card stock	12

1. In the sample results, which bridge held the most pennies?
Answer 1

2. How many more pennies did the folded paper hold than the flat paper?
Answer 2

3. The flat paper and the folded paper were the same kind of paper. Explain what the results show about shape and strength.
Answer 3

Hands-on task: Test the strength of paper bridges

Bridge	Pennies it held
Flat paper	____
Folded paper	____
Card stock	____

The strongest bridge was:
Investigation notes and observed evidence

Day 67: Testing Absorbency

Sample results

Material	Water soaked up after 1 minute
Paper towel	All
Cloth	All
Plastic wrap	None
Foil	None

1. Which materials in the sample results soaked up all the water?
Answer 1

2. Which materials soaked up none?
Answer 2

3. A family needs a cover to keep rain off a woodpile. Use the results to choose a material and explain why.
Answer 3

Hands-on task: Test which materials soak up water

Material	Soaked up all, some or none?
Paper towel	____
Cloth	____
Plastic wrap	____
Foil	____

The material that soaked up the most water was:
Investigation notes and observed evidence

Day 68: Flexibility, Hardness and Texture

Materials and their properties

Material	Flexible or stiff	Hard or soft	Texture
Rubber	Flexible	Soft	Grippy
Steel	Stiff	Hard	Smooth
Wool	Flexible	Soft	Fuzzy
Glass	Stiff	Hard	Smooth

1. Which materials in the table are flexible?
Answer 1

2. Which material is soft and fuzzy?
Answer 2

3. Use the table to choose a material for the bottom of a boot that should not slip. Explain your choice.
Answer 3

Day 69: Choose the Best Material for the Job

Sample results

Material	Water in the cup?	Bent to fit?
Paper towel	Yes	Yes
Cloth	Yes	Yes
Plastic bag	No	Yes
Foil	No	Yes, but it tore

1. In the sample results, which materials let water into the cup?
Answer 1

2. Which materials kept the cup dry?
Answer 2

3. Use both columns of the sample results to choose the best material for a rain hat. Explain why it is better than the other dry material.
Answer 3

Hands-on task: Choose a material for a rain hat

Material	Water in the cup? (yes or no)	Did it bend to fit?
Paper towel	____	____
Cloth	____	____
Plastic bag	____	____
Foil	____	____

My rain hat should be made of:
Investigation notes and observed evidence

Day 70: Independent Check: Testing Materials

Testing three mats

Mat	Water soaked up	Bends to fit the floor
Rubber	None	Yes
Cotton	All	Yes
Wood	Some	No

Answer on your own. An adult may read the questions aloud but should not give the answers.

1. Which mat soaked up all the water?
Answer 1

2. Which mat does not bend to fit the floor?
Answer 2

3. A family wants a mat by the sink that soaks up drips and fits the floor. Use the table to choose a mat and explain why.
Answer 3

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