ACTIVITY WORKSHEET · AGES 5–10

Keep a Passenger Dry with Elena

Let's practice the engineering design process



ELENA'S TIP

Look where the water went before you change the design.

Name _____ Date _____

ENGINEERING DESIGN PROCESS

You'll need: Scrap paper, scissors, foil, tape, a tray, water and a dropper or spoon.

1 Identify the problem

Cut out a small paper person. Build a shelter that keeps it dry.

2 Brainstorm

Sketch two ways to cover the passenger.

Idea 1

Idea 2

3 Prototype

Build one idea and put it on the tray.

4 Test and evaluate

Drip a spoonful of water onto the roof. Is the passenger dry or wet?

_____

5 Improve

Change the roof or a seam. Use a dry passenger and test again.

_____

_____

The STEM Squad
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