ACTIVITY WORKSHEET · AGES 5–10

Build a Paper Tower with Elena

Let's practice the engineering design process



ELENA'S TIP

Change one part at a time so you can see what helped.

Name _____ Date _____

ENGINEERING DESIGN PROCESS

You'll need: One sheet of paper, tape and a ruler.

1 Identify the problem

Build a tower from one sheet that stands on its own.

2 Brainstorm

Sketch two base shapes. Which base might stand more steadily?

Idea 1

Idea 2

3 Prototype

Build one idea. Save some tape for a change later.

4 Test and evaluate

Let go for 10 seconds. Does it stand? Measure its height.

_____

5 Improve

Change the base and test again. What changed?

_____

_____

The STEM Squad

Read their books at thesquadbooks.com