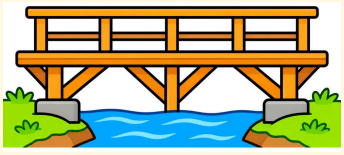
Strong Structures

Grade 1

Name: _____ Date: _____

A **structure** holds something up or holds its own shape.
A wide **base** and **triangle** shapes make a structure strong.



a bridge

1 Is it a structure?

Tick the structures.

- ☐ a bridge
- ☐ a chair
- ☐ a bird nest
- ☐ a shadow
- ☐ a puddle
- ☐ a cloud
- ☐ a tent
- ☐ a house

2 What is it for?

Draw a line to the job it does.

A bridge	crosses over a gap
A roof	keeps the rain out
Walls	hold the roof up
A nest	holds the eggs safely
Legs	hold a table up

Strong Structures

Grade 1

Name: _____ Date: _____

3 Which is stronger?

Circle the stronger one and say why.

1. A tower with a wide / narrow base, because _____

2. A shape that is a triangle / squiggle, because _____

3. A chair with four legs / one leg, because _____

4 Build and test.

Build a tower from paper. Write what you find.

My tower	How tall?	Did it stand?
Try 1		
Try 2		
Try 3		

5 Draw it.

Draw a strong tower. Mark the **base** with a **B**.

My tower

Answer Key

Grade 1

Name: _____ Date: _____

Strong Structures — Grade 1 Science, Everyday Materials, Objects, and Structures

1 Is it a structure?

Tick: **a bridge, a chair, a bird nest, a tent, a house**.

Leave blank: a puddle, a cloud, a shadow — none of them hold anything up or keep a shape.

2 What is it for?

A bridge → **crosses over a gap** A roof → **keeps the rain out**

Walls → **hold the roof up** A nest → **holds the eggs safely** Legs → **hold a table up**

3 Which is stronger?

1. **wide** — it spreads the weight and will not tip.
2. **triangle** — it will not squash out of shape.
3. **four legs** — the weight is shared and it cannot tip.

4 Build and test.

Answers vary — this is a real test. Look for a wider base on the later tries.

5 Draw it.

Look for a base wider than the top, with **B** marked at the bottom.