Date

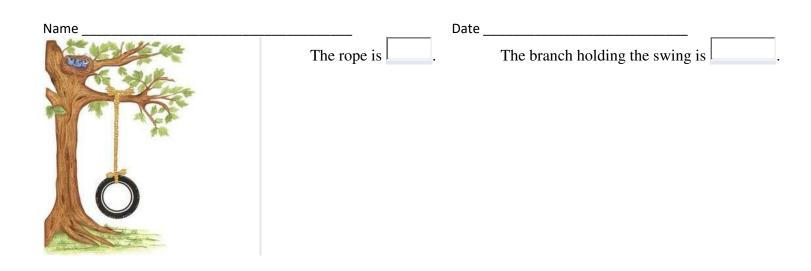
WHAT MAKES IT STRONG?

Structures need to be strong and stable to last a long time. A strong structure would not break or change its shape. In other words, the object can withstand any force. The shape of a structure is important. Shapes of strong structures make use of arches, rectangles, and triangles. Some structures last longer because of the material used to make the structure.

Questions

1. Determine the strength and stability of these structures. Could it break or fall?

| Would it break or fall? | Write: stable or not stable | Write: strong or not strong |
|-------------------------|-----------------------------|--|
| | This tent is | This tent is |
| | These pyramids are | These pyramids are |
| Π | This stool is | The legs on this stool is |
| A E man | This teepee is | The material used to frame the teepee is |



2. Consider the shape of the structure below. What is the **best reason** that this structure is strong and stable?



- This structure is tall.
- This structure is made of steel.
- This structure has a solid and heavy triangular base.
- The wind cannot move this structure.
- The structure was built by brilliant people.
- 3. Select a material and its advantage.

SORT ELEMENTS

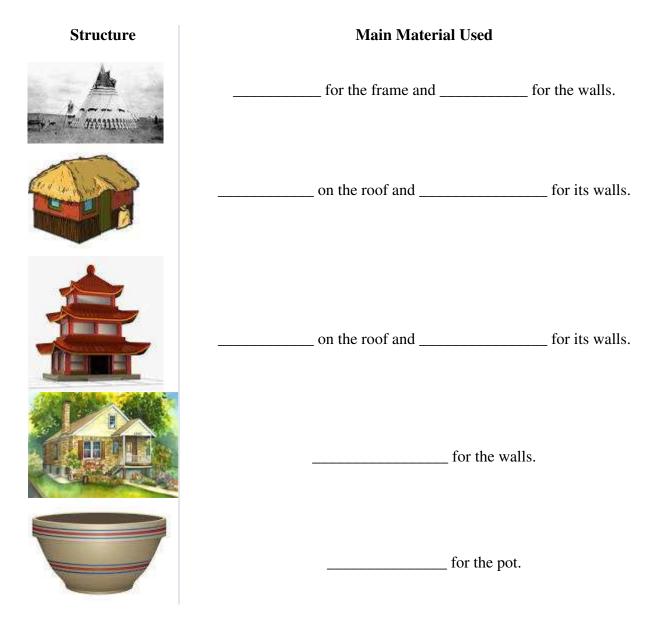
| Metal | Glass | Plastic | Wood | | | | |
|--|----------------|---------|------|--|--|--|--|
| Strong and tough; easy to shape and shiny. | | | | | | | |
| It is transpa | rent and hard. | | | | | | |
| It is light weight, a good insulator and waterproof. | | | | | | | |
| It is strong and durable; it can be shaped in almost any form. | | | | | | | |

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 4. What type of material are they made of? Match the structure to the main material used to build it.

List: bamboo, bricks, buffalo skin, clay, mud, straw, wood



5. What type of material are they made of? Match the structure to the main material used to build it.

List: clay, metals, steel, straw, vine, wood

| Structure | This bridge is made of and | |
|-----------|--------------------------------|--|
| | This adobe house is made of | |
| | This lock is made of | |
| | The railway tracks are made of | |
| | This abacus is made of | |

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