Name: _____ Date: _____

STRUCTURE

Looking at the picture provided, answer the following questions.

List all of the structures you can see in the picture.

Roller Coaster, Tent, Buildings, Stilts, Garbage Can, People, Unicycle, Ticket Booth Game Stands, Ladder, Tree, Balloon

In what ways are the structures the same?

They can all hold something. They all have a purpose.

In what ways are the structures different?

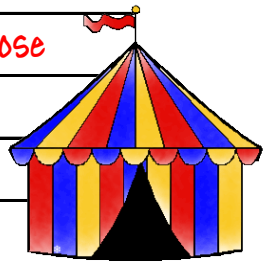
The shape and size are different. Their purpose is different. The amount of load they can hold is different.

Name one structure that is more stable than another. Why do you think it is more stable?

The roller coaster is more stable than the stilts. This is because the roller coaster has many points of contact with the ground, and the forces can be spread out. The stilts have only two points of contact, and the load is not very spread out.

Name one structure that is stronger than another. Why do you think it is stronger?

The roller coaster is stronger than the balloon. This is because the roller coaster moves a lot and creates a lot of forces. The frame needs to be built to handle those forces. The balloon is not meant to hold a big load, so it is not built as strong.



As you have seen, some structures can be very similar, but others can be quite different. However, all structures have some traits that are the same.

- All structures have a definite size.
- All structures have a definite shape.
- All structures hold a load.

Look around your classroom. Make a list of structures in the classroom.

Desk, Chair, Chart Stand, Table, Bins, Garbage Cans, etc

Choose one of the structures from you list. Draw the structure. With your drawing, indicate the following:

- What part of the object provides the structure (the support)?
- What is the purpose of the structure?
- Where does it support a load?
- Where do you think it would fail if the load was too much?