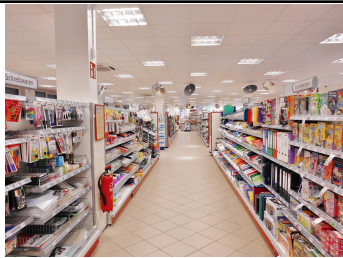




Building Bridges: A STEMtastic Challenge for Guinea Pig Pals Student Worksheet



Price List

Super Structures:

- Cardboard: Free (from cereal boxes, shoeboxes, etc.)
- Straws: 5 for \$1
- Popsicle sticks: 5 for \$1
- Wooden skewers: 3 for \$1
- Masking Tape: 6 inches for \$1
- Glue: \$2 (small bottle)
- Hot glue stick: \$2 per stick
- Yarn or string: 3 feet for \$1
- Paper clips: 20 for \$1

Groundbreakers:

- Playdough: \$3 (small tub)
- Dry clay: \$2 (small bag)
- Sugar cubes: 25 for \$1
- Marshmallows: 10 for \$1
- Soil (from outdoors): Free
- Rocks and pebbles: Free (from outdoors)

Bonus Materials:

- Fabric scraps: Free (leftover pieces)
- Aluminum foil: 2 feet for \$1

Brainstorm 3-5 ideas for your bridge:

Draw the design- label all of the parts. Identify the superstructure and the substructure. Identify the type of bridge it is.

Create a shopping list! Keep in mind your budget of \$25.

Item	Cost	Number needed	Total cost

Explain why you chose this type of bridge.

Data Tables

- Bridge Design
- Weight Held
- Stability
- Notes:



If you could redesign your bridge, what would you do and why?

REFLECTION: Write a short paragraph that describes both your successes and challenges as well as what you learned.