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**Findley Oaks STEM Connect**

**1st Grade Design Brief**

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| **Challenge**  **Traveling Pets** | **Unit**  **Animals** |

**Standard:** Prioritized Standard: S1L1.b Obtain, evaluate, and communicate information about the basic needs of plants and animals. Ask questions to compare and contrast the basic needs of plants (air, water, light, and nutrients) and animals (air, water, food, and shelter).

Students should follow the engineering design process.

**Background/Problem:** After reading the story about pets. You learned information about many animals that make good pets. Sometimes people need to take their pets places -on trips, to the vet, to an animal show. Your pet (favorite stuffed animal) needs a container to travel in.

**Design Challenge:** Design and create a container that you can use to safely and successfully carry your pet. Your pet must travel to and from safely, without falling out or getting hurt.

**Criteria:**

Your container must:

* have at least one moving part
* have an opening to take your pets inside and out
* have another opening so that your pets can look out and see where they are going
* have a handle so that you can carry it
* hold your pets inside, safely and comfortably
* be decorated

**Constraints:** You can only use the materials provided.

**Materials:**

Cardboard

Poster board

Boxes

Glue and/or glue sticks

Pom-poms

Toilet paper and toilet paper rolls

Rubber bands

Brads

Tape

Craft sticks

Yarn

Beads

Ribbon

Pipe cleaners

Anything in the scrap box

Construction paper

Anything else your teacher puts out for you to use

**Tools:**

Markers and / or crayons

Scissors

Crazy scissors

Hole punch

Staplers

Rulers

Paper (For design planning)

Pencils

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