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**Findley Oaks STEM**

**3rd Grade Design Brief**

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| **Challenge**  Reusable Object Project Homemade Toys | **Unit**  Pollution and Conservation |

**Standard:** Prioritized Standard: S3L2.a Obtain, evaluate, and communicate information about the effects of pollution (air, land, and water) and humans on the environment.

Students should follow the **Engineering Design Process.**

**Background/Problem:** We have learned that it is a good idea to conserve the resources/things that we have. Recycle, reuse, and reduce.

**Design Challenge:**

A picture containing knife

Description automatically generated

Your design challenge is to make a toy out of recyclable materials. Design and build a homemade toy that two to four children can play with together. Use as many recyclable/found materials as possible.

Children all over the world have some things in common. They all need food, shelter, and clothing. And they all love to play. Many children create their own toys with things they find in their environment. This leads to the invention of many homemade toys.

**Criteria: Your creation should:**

* be useable and useful.
* be strong, sturdy, and stable.
* be a toy that children around the world would like to play with
* be designed for 2 to 4 children to be able to play with together
* be constructed mostly out of recycled/found materials
* be safe to play with
* be easy to carry

**Constraints:**

* Make sure you have a design plan before you start.

Materials:

Clean reusable Recyclable/found items **Start collecting**

Straws

Craft sticks

Pipe cleaners

String

Glue

Tape

Used paper clips

A picture containing toy, table, sitting

Description automatically generated

Tools:

Scissors

Stapler

Hole punch

Ruler

Crayons

Markers

Paper/pencil for design planning

Design ideas:





