

Task # 1

Create a device that can pick up an eraser.

Materials: Straws and Pipe Cleaners

Task # 3

Construct a sled that includes a harness so it can be pulled by a dog or a horse.

Materials: Straws and pipe cleaners

Task # 2

Design and build a swing set that stands on its own. At least one swing should actually swing.

Materials: Pipe Cleaners

Task # 4

Create a base for a cup that can hold 50 pennies at least 5 cm from the ground.

Materials: 8 Pipe cleaners

Task # 5

Design a bridge that connects your desk to another student's desk. It should support at least 20 grams of mass.

Materials: 6 sheets of paper and 20 cm of tape

Task # 7

Create a paper airplane that can hold an eraser. Then, compete with your peers to see which one flies furthest.

Materials: 1 sheet of paper and an eraser. 2 paperclips are optional.

Task # 6

Build a cylinder. Then, compete with your peers to see which one rolls further down a 30 cm ramp.

Materials: 1 sheet of paper and 20 cm of tape.

Task # 8

Create a cup that can hold 50 ml of water without leaking for 20 seconds.

Materials: 1 sheet of paper and 20 cm of tape.

Task # 9

Create a bouquet of flowers.

Materials: 5 sheets of construction paper or origami paper

Task # 11

Create a ladder with 4 steps on it.

Materials: 50 cm of string and 2 straws

Task # 10

Create a cube with all 6 numbers on it to make a dice.

Materials: 20 straws

Task # 12

Create a bridge strong enough to hold a cup with 20 marbles. It must be 10 cm long.

Materials: elastic band, paper, tape, and straws.