



ReadingVine

STEM

TASK CARDS

1 STEM Prompts

Build a structure using only toothpicks and marshmallows. How tall can you make it?

2 STEM Prompts

Design your own presidential seal, crest, or logo. What symbols would represent you?

3 STEM Prompts

Create a simple machine using household or classroom items (like a pulley or lever) and explain how it works.

4 STEM Prompts

Investigate and document the life cycle of a plant. How does it grow? What does it need?

5 STEM Prompts

Build a bridge using popsicle sticks. Test how much weight it can hold.

6 STEM Prompts

Observe and record the behavior of ants or other insects. What patterns do you notice?

7 STEM Prompts

Experiment with different materials to discover which ones are magnetic.

8 STEM Prompts

Construct a bridge using items you find in your classroom or household.

9 STEM Prompts

Create a water filtration system using various materials (like sand, gravel, and cotton).

10 STEM Prompts

Test different surfaces to see which ones create the most friction for a toy car to travel on.

11 STEM Prompts

Build a simple electrical circuit using batteries, wires, and a bulb.

12 STEM Prompts

Investigate and explain how plants respond to light .

13 STEM Prompts

Build a tall tower out of classroom or household objects. Use a combination of hard and soft objects.

14 STEM Prompts

Design and construct a simple parachute and test its descent rate with different weights.

15 STEM Prompts

Study the effects of different liquids (like water, oil, and syrup) on objects' sinking or floating.

16 STEM Prompts

Build a boat using aluminum foil. How much weight can it hold without sinking?

17 STEM Prompts

Create several different styles of paper airplane to see which one flies best.

18 STEM Prompts

Investigate how different temperatures affect the rate of ice melting.

19 STEM Prompts

Construct a solar oven using a pizza box and aluminum foil. Test its ability to cook something.

20 STEM Prompts

Use assorted blocks and items to create various shapes.

21 STEM Prompts

Design a tool for a person who has trouble reaching items that are high up on shelves.

22 STEM Prompts

Build a mini-catapult using popsicle sticks and rubber bands. Test its launching distance.

23 STEM Prompts

Research the effect of music on plant growth by exposing plants to different genres or frequencies.

24 STEM Prompts

Create a model of the solar system using various craft materials.

25 STEM Prompts

Design a new type of watering can that can water many plants at once.

26 STEM Prompts

Construct a paper bridge and test how many coins it can hold before collapsing.

27 STEM Prompts

Experiment with static electricity using balloons, wool, and other household items.

28 STEM Prompts

Build small paper boats that can float in water.

29 STEM Prompts

Create a small poster that explains how to maintain a vegetable garden.

30 STEM Prompts

Create a rainbow using a prism and sunlight. Describe how it forms.

31 STEM Prompts

Build a paper tower using only one piece of paper. How tall can you make it?

32 STEM Prompts

Experiment with different shapes of paper airplanes and test which flies the straightest.

33 STEM Prompts

In a small dish or bowl, investigate the effects of small waves and whirlpools.

34 STEM Prompts

Construct sandcastles in different shapes. Which are strongest?

35 STEM Prompts

Design a classroom that can stay cool even when it does not have an air conditioner.

36 STEM Prompts

Determine the different types of materials that can be used to keep a space warm.