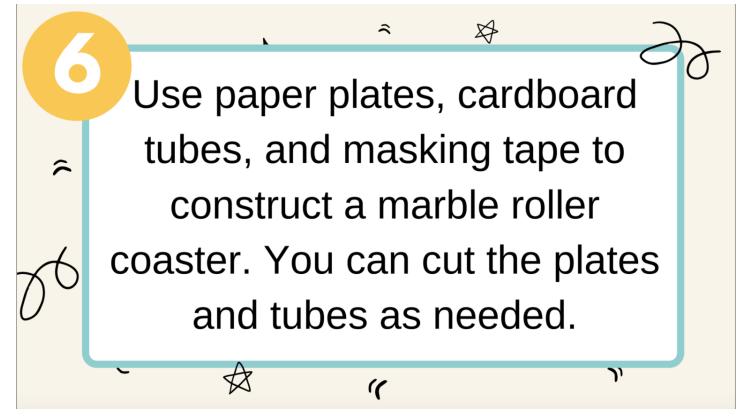
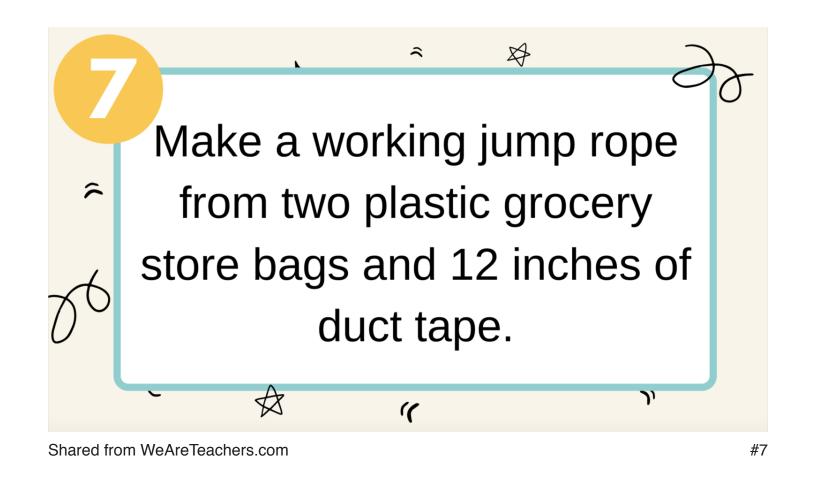
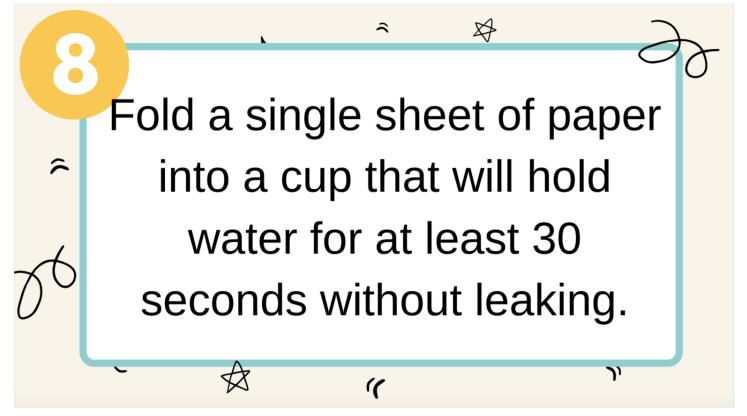


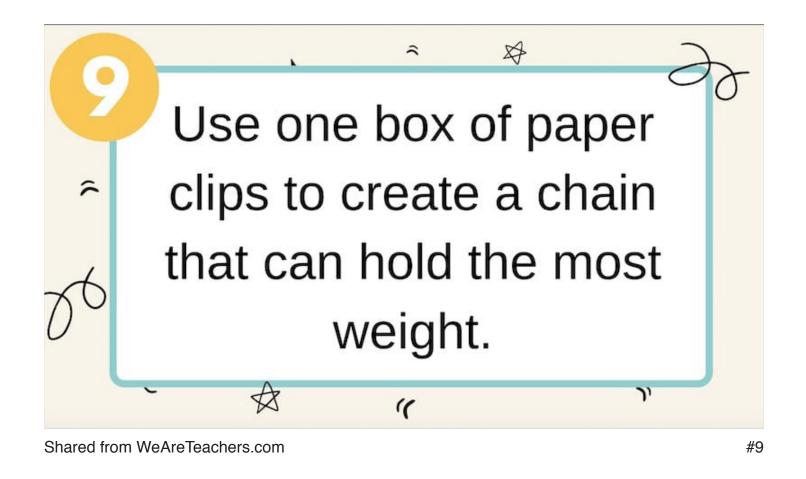
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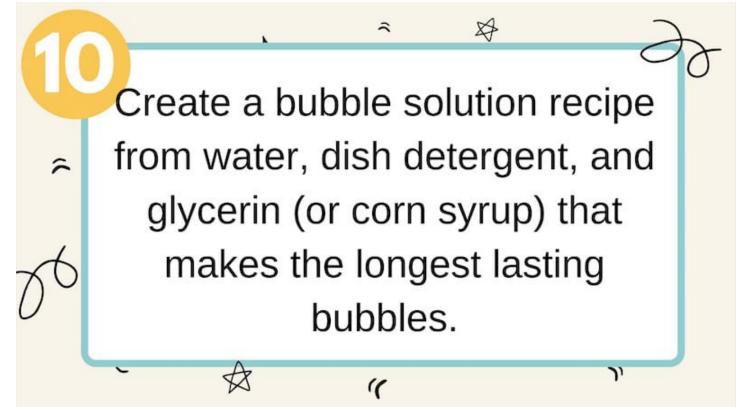


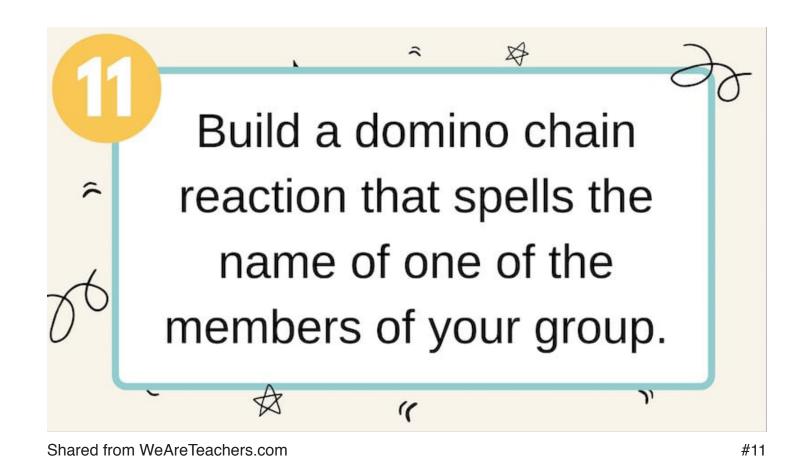
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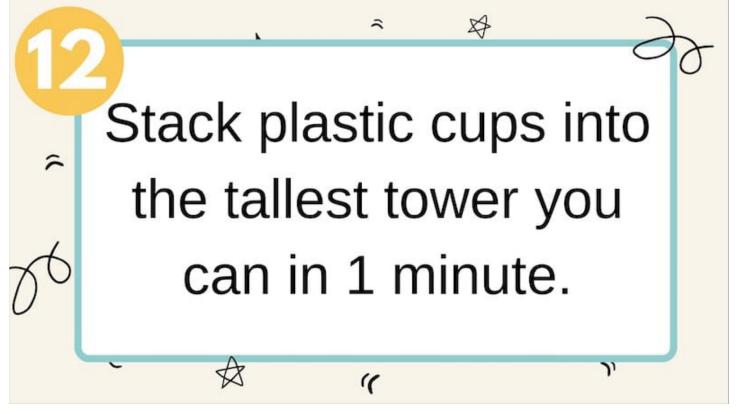




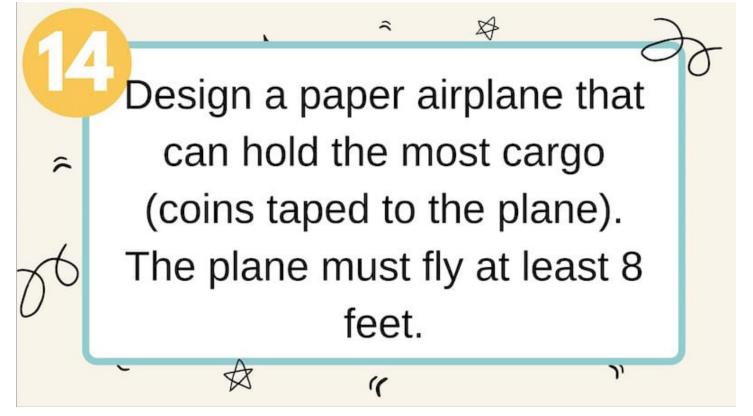




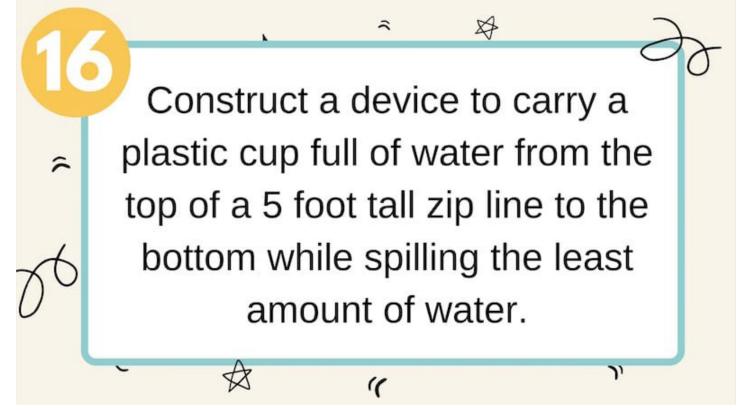


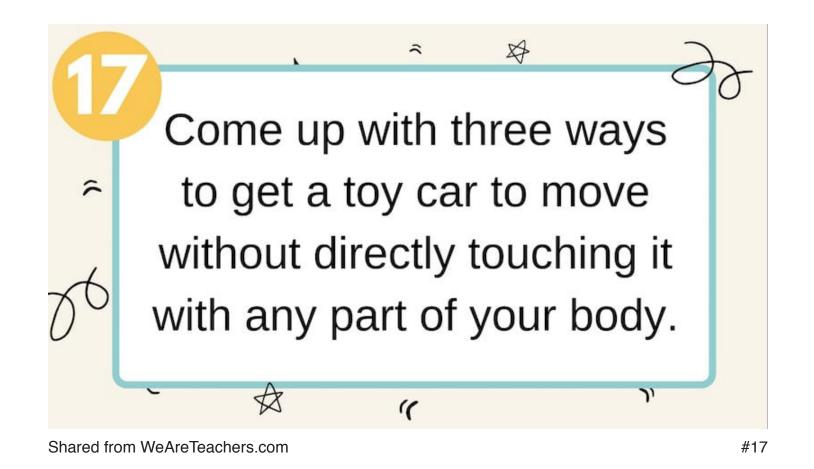


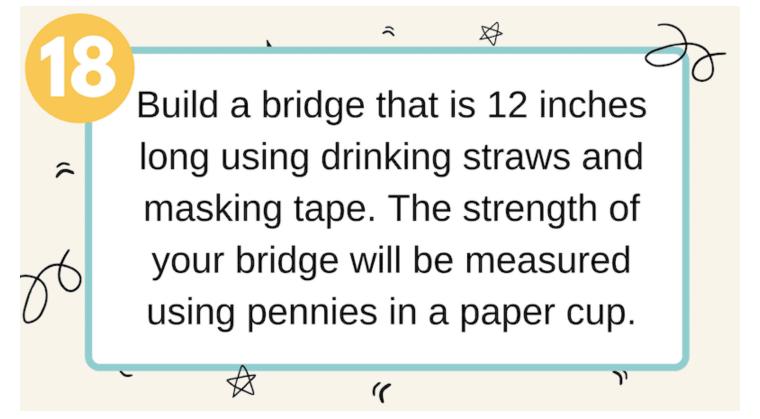












Use newspaper and scotch tape to design a stylish shoe that you can put on and take off of a team member's foot.

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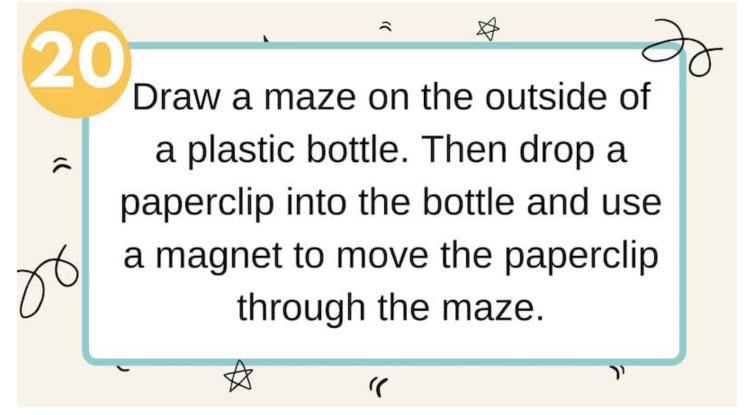
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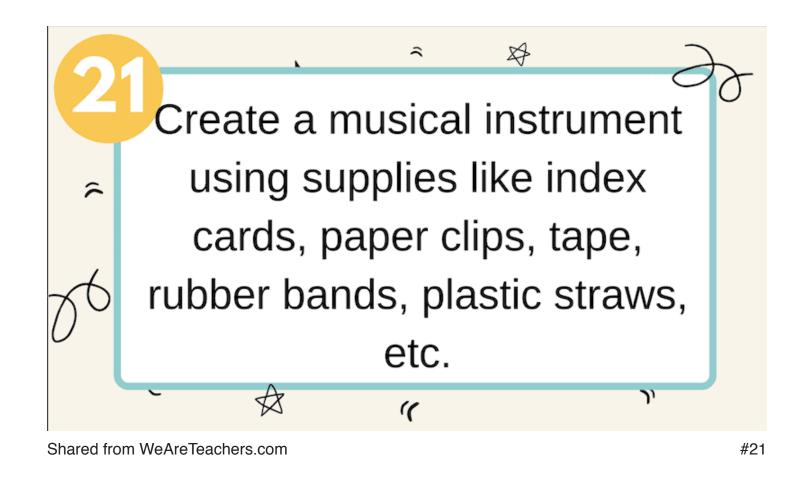
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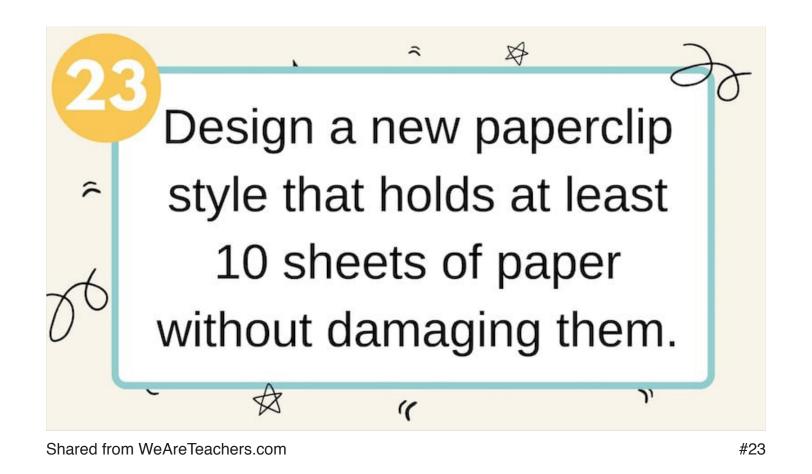
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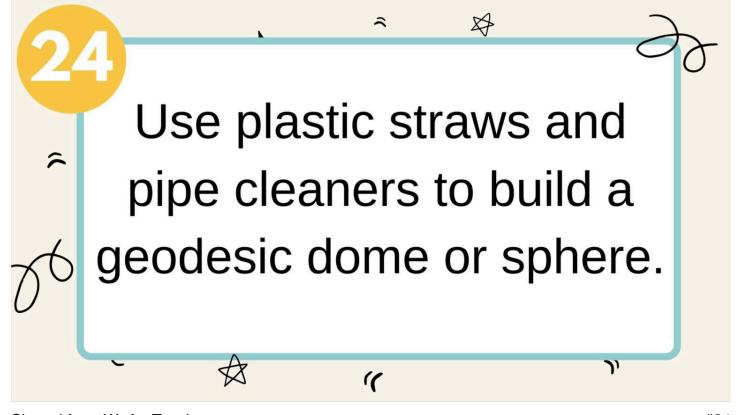


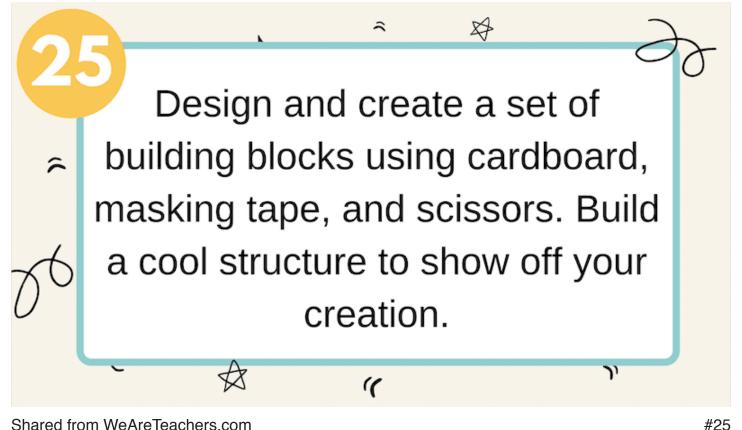
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## 25 Fifth Grade STEM Challenges

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- 1. Design a floating raft that holds the most pennies, using plastic straws and string.
- 2. Build the tallest possible tower using the fewest number of toothpicks and gum drops.
- 3. Construct a catapult from wood craft sticks and rubber bands that can accurately launch a marshmallow through a hoop.
- 4. Engineer a structure to support the most weight (measured in books) using clothespins and wood craft sticks.
- 5. Build the tallest possible tower that supports the weight of a book using only 10 index cards. You can bend or tear the cards however you like, but you cannot use scissors, glue, or other tools.
- 6. Use paper plates, cardboard tubes, and masking tape to construct a marble roller coaster. You can cut the plates and tubes as needed.
- 7. Make a working jump rope from two plastic grocery store bags and 12 inches of duct tape.
- 8. Fold a single sheet of paper into a cup that will hold water for at least 30 seconds without leaking.
- 9. Use one box of paper clips to create a chain that can hold the most weight.
- 10. Create a bubble solution recipe from water, dish detergent, and glycerin (or corn syrup) that makes the longest lasting bubbles.
- 11. Build a domino chain reaction that spells the name of one of the members of your group.
- 12. Stack plastic cups into the tallest tower you can in 1 minute.
- 13. Build a free-standing ring of Pringles chips.
- Design a paper airplane that can hold the most cargo (coins taped to the plane). The plane must fly at least 8 feet.

- 15. Use newspapers and masking tape to design a device that would keep all the members of your group dry in a rainstorm.
- 16. Construct a device to carry a plastic cup full of water from the top of a 5-foot tall zip line to the bottom while spilling the least amount of water.
- 17. Come up with three ways to get a toy car to move without directly touching it with any part of your body.
- 18. Build a bridge that is 12 inches long using drinking straws and masking tape. The strength of your bridge will be measured using pennies in a paper cup.
- 19. Use newspaper and scotch tape to design a stylish shoe that you can put on and take off of a team member's foot.
- 20. Draw a maze on the outside of a plastic bottle. Then drop a paperclip into the bottle and use a magnet to move the paperclip through the maze.
- 21. Create a musical instrument using supplies like index cards, paper clips, tape, rubber bands, plastic straws, etc.
- 22. Build a house with at least two rooms using wood craft sticks and glue.
- 23. Design a new paperclip style that holds at least 10 sheets of paper without damaging them.
- 24. Use plastic straws and pipe cleaners to build a geodesic dome or sphere.
- 25. Design and create a set of building blocks using cardboard, masking tape, and scissors. Build a cool structure to show off your creation.