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SCIENCE LESSON PLAN: BRIDGE

NAME: _____ **DATE:** _____

OBJECTIVE

Students will work together to build a freestanding (not connected to anything for stability and without piers/support structures along the span) bridge that is at least -- cm. long. [Distance can be determined based on the materials being used and the age/grade of the students.]

TESTING

Each group of students should describe their bridge design elements to the class and demonstrate that it is able to stand freely for a specific period of time. You can use blocks or books to create the space that must be crossed or you can use two desks that are a specific distance apart.

Note: Since some bridges are likely to fall apart if a load competition is held, it is recommended that photographs are taken of each of the bridges, from a variety of angles.

MATERIALS

Be creative- choose supplies that are available to you and should be limited on budget. Popular materials for bridge building challenges are:

- Spaghetti noodles and marshmallows
- Newspaper and tape
- Cardboard and tape
- Toothpicks and gumdrops
- Popsicle sticks and glue
- Straws
- Other supplies that can be available include: scissors, meter stick

REFLECTION

- Did your team build the bridge that was on the original design sheet? If no, what did you need to change?
- Which elements of your final design worked well?
- List materials or tools that you wish you would have had to make the bridge building process more successful.
- If you could change anything that your team did when responding to the challenge it would be: What was the best part of the bridge challenge?

For more information, check the online class portal, **www.evergreenelementary.com/science**

Source: https://www.cmu.edu/gelfand/education/k12-teachers/bridges-and-structural-engineering/bridge-lessonplans/building-challenge.html

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