STEM

Will the Bond Break?

Objective: Test the strength of bonding in molecules

You will be given jellybeans for elements and toothpicks for bonds

You will have to create a molecule using those items.

You will test this with applying masses on top of the molecule with no support underneath.

Procedure

1. Open the bag of materials

2. Research compounds that have the most strength

3. Build the compound with the bag of materials

4. Test the strength of your compound

5. If there is time, rebuild the compound to increase the strength of your molecule

Conclusion Questions (Answer on a Separate Piece of Paper)

1. What type of molecule did you build? Explain Why.

2. Look at another group’s molecule. How are the two molecules different? Similar?

3. What could you have done differently if you had more materials to make your molecule successful?

4. Of your class, which group had the strongest molecule structure? Why do you think that molecule had so much strength?