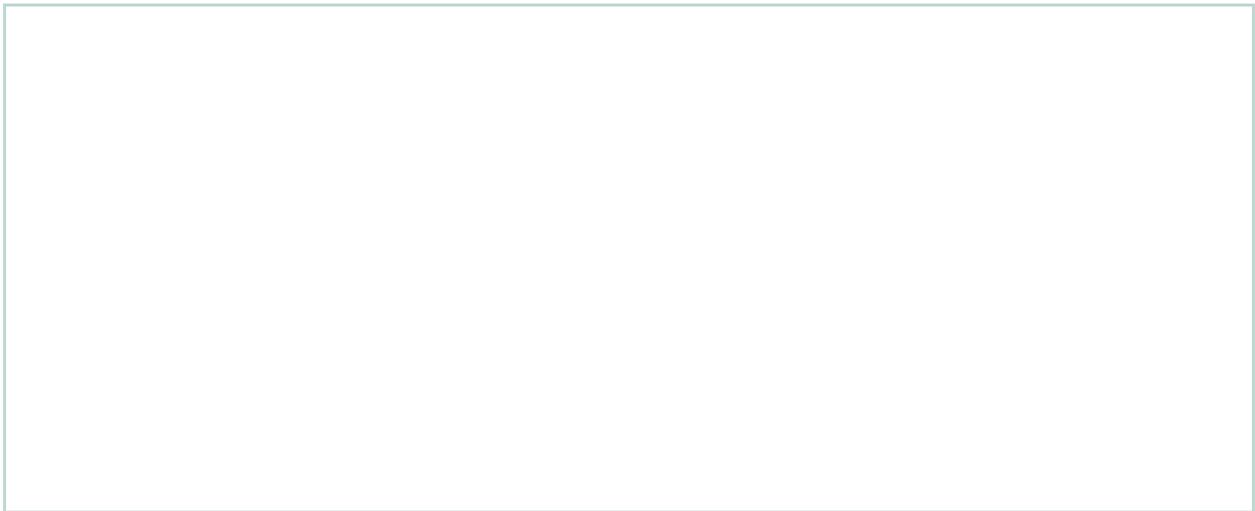


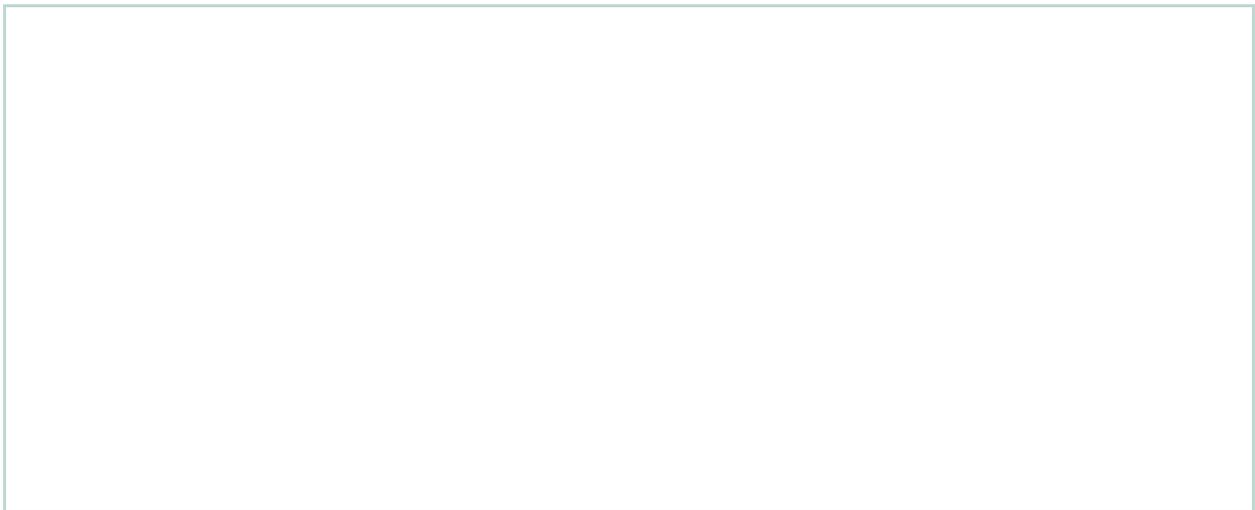
DESIGN A HELMET

Work with your group members to design a helmet to protect your fragile object, which represents a head. Your group will later transform the design blueprint into a real helmet. You will test the helmet on an object that will be dropped from a certain height. Use your research on types of helmets to guide your design.

1. Draw and label the helmet design(s) your group invented in the box below. For each design, include a list of required materials.



2. Have your teacher approve your blueprint, then work in your group to build your approved helmet. Participate in a test drop. In the box below, describe which group's helmet performed best in the test drop. Include a diagram or written description of the helmet and what materials were used to build it.



3. In the box below, record some of the feedback you received from your peers about your helmet design after the test drop. Write some of the changes you plan to make to your design and describe why you intend to make these changes.

4. Perform a final test drop of your new helmet design. Record below what you learned from the design process. Which group's design was most successful? Why? What materials did you use to make your design more successful?