Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Egg Drop Parachute Project

Your mission is to construct a parachute that will deliver a raw egg safely to the ground when dropped. Any good project should begin with research, so in the computer lab you need to find out as much as you can about how parachutes work.

Answer the following in your own words and in complete sentences!

1. How does a parachute work?
2. What type of materials should a parachute be made of?
3. What effect does the size of the parachute have?
4. What effect does the shape of the parachute have?
5. Is the length of string important when making a parachute?
6. What is drag (in relation to parachutes)?
7. How much does a typical raw egg in the shell weigh?
8. Use the following parachute design interactive web site to “play” with some different designs.

* <http://www.pbs.org/wgbh/nova/space/design-mars-parachute.html>

1. What observations can you make about the interactive above? (Explain in detail what worked better and what did not work.)
2. Sketch 3 different designs of parachutes that you observed during your research. Label the canopy and the band on each sketch.
3. Below sketch and label a design for your first parachute that you will create to attempt to deliver an egg safely to the ground without it breaking. This design can be changed later, but this will be your initial design. List the materials that you will need to make this parachute.