

Egg Drop Questions

NAMES: _____

Answer the following questions to aid in planning for the Egg Drop. Be specific in explanations. Draw diagrams if necessary.

1. Explain how the egg falling to the floor is related to Newton's first law. That is, explain in terms of inertia.
2. How does Newton's second law affect the egg carrier that you are going to build? (Explain in terms of Mass)
3. Use the third law to explain the effect that force of the floor has on the egg carrier.
4. Explain how air bags in cars work? Use surface area and how they disperse force.
5. How do race car drivers survive bad crashes? What equipment is it that helps the driver stay safe?
6. What is rigidity?
7. What shapes are rigid?
8. What shapes are not rigid?
9. What are you going to build into your carrier that will protect your egg?
10. List three materials things you could to use for your egg carrier.
 - a.
 - b.
 - c.