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DDP Packaging Research

1. Describe an egg: An egg is a round-shaped reproductive object produced by the female of an organism. Some organisms include the bird, fish, reptiles, and invertebrates. Eggs are used to hold the embryo and help it develop for it to come into the world. The egg shell is used to protect the embryo and is fragile.
2. Gravity: Gravity is a force caused by energy and mass. This force causes objects to fall towards the Earth. Smaller objects are attracted towards bigger objects. For instance, the Earth rotates around the Sun because the Sun has more mass than the Earth. This same principle applies towards things on Earth too. For example, an apple falls from a tree. The apple has less mass and energy than the Earth, so the apple would be attracted towards the Earth.
3. Describe what other High Schools have done to complete this project: One of the high schools that I’ve encountered doing this project is Apache Trail High School. There were eight teams, and one of the teams had surrounded the egg with straws and stuffing in a Styrofoam cup. This team didn’t have their egg cracked during the drop.
4. Look up what kinds of materials are used for packaging products: Some materials that are used for packaging products are cardboard, plastic, aluminum, foam and glass. Other materials include bubble wrap, and shrink wrap.
5. Describe what kind of information is found on the outside labels of packages? The information found on the outside labels of the packages include the cautions/dangers. These tell you about the age gap, safety hazards, and who should stay away from the product. Furthermore, another outside label is a barcode. Barcodes are used to scan the quantity of the product, the price in the network, and being able to restock on a product if it runs out of stock. For food, the outside label would have a nutrition label, for allergies and for people on a diet. Also, the nutrition label contains the ingredients of that food product, and serving amount, as well as nutrients and calories.
6. Potential/ Kinetic Energy: Kinetic energy is the energy during the movement of an object. While potential energy is the energy stored in an object in its position or arrangement.
7. Velocity: Velocity is speed in a specific direction. For example, velocity in action when a car is moving, or when a space shuttle is rotating around the Earth. They all use speed and are moving in one direction.
8. What kinds of materials can your group bring into class?

Some materials that we can bring into class are foam, and some cardboard, along with bubble wrap or shrink wrap.