

Egg Drop Protectors

Have you heard the nursery rhyme about Humpty Dumpty? No matter how hard they tried, no one could put that poor egg back together again. Try egg-straordinary egg drop experiments with your child.

YOU WILL NEED

Paper
Plastic eggs or hard boiled eggs
Markers
Parachute or cushioning materials (examples: balloons, cloth, egg cartons, straws, yarn)
Other tools (examples: weights and measuring devices)

STEPS

1. Research kinetic, potential and dissipated energy with your child.
2. Design an egg drop protector with your child using parachute or cushioning materials.
3. Conduct and document your egg dropping experiment trials using different protector designs to determine which design is successful. You may want to measure the height of the drop, weight of the egg and consistency of the materials.
4. Continuously improve using different materials each trial.
5. Share and celebrate your success with family members.

VOCABULARY

Kinetic Energy – The energy an object has due to its motion.

Potential Energy – Energy converted from kinetic energy to another form and can return to being kinetic energy.

Dissipated Energy – Energy converted from kinetic energy to another form but cannot return to being kinetic energy.

