

# Egg Drop Challenge

The Great Egg Drop is an experiment where each parent and child team attempt to create a device that can keep a raw chicken egg intact when dropped from a height. Each parent and child team will need to create something that can absorb the energy the egg gathers as it accelerates towards the ground. A hard surface will crack the egg so you must think carefully about how you can protect it. Something that will cushion the egg at the end of its fall is a good place to start. You want the egg to decelerate slowly so it doesn't crack or smash all over the ground.

## When/Where/Time

Our egg drop will take place on May 16<sup>th</sup>, 2024, at 10:00am outside our neighboring building, B26. The distance of the drop is @ 15.5'. For safety reasons, the parent will drop the egg from the building. The child will stand on the ground. In addition to safety, this ensures your child will have a good view of the egg drop.

**Research:** Teachers will begin the research process with the children by learning and reading about how to make a parachute, gravity, and weight. Then they will chart their predictions, knowledge and, materials using a KWL chart. Parents can use this as the foundation for their planning of their egg drop contraption.

**Brainstorm:** With your child's help think about the materials you need for your parachute that will protect the egg?

**Choose Your Items:** Feathers, Foam, Bubble Wrap, Shredded Paper, Coffee Filters, Tissue Paper, Wax Paper, Plastic Bags, Balloons, Cardboard, Peanuts, etc.

**Build/Create:** Now it's time to build your parachute from the items you have decided to work with.

**Test:** Test out your egg drop contraption.

**Redesign:** Talk with your child about what you may need to adjust or change. The process is more valuable to your young one than the product!

