

What Makes Things Fall?

What you need:

- egg in a resealable plastic bag
- newspaper
- tape

What you do:

- **WORK TOGETHER:** Design a landing pad that will keep a falling egg from breaking. Use only tape and newspaper.
- **WORK TOGETHER:** Build the landing pad that your group designed. Share your group's design with the class.
- **EXPERIMENT:** Hold the egg above the landing pad. It should be near your waist. Drop the egg. Observe the results. Share your result with the class.

Think and write

- **INFER:** What caused the egg to drop?
- What can you infer about the landing pads that kept the eggs from breaking?

Guided inquiry:

EXPERIMENT: Make a plan to drop the egg from different heights. Record the steps of your plan. Read the steps aloud. Have classmates follow them.

****Teacher's note****--A variation of this too could be to assign students to make a container at home that they feel would safely protect an egg from a drop from a pre determined height. After having done this introduction experiment at school, they can get some idea of what they need to do and then go home and build a container for another egg using anything they wish. Then bring it to school and everyone can drop their eggs again.

Informal assessment question: *What kind of force caused the egg to drop?* (a pull)

GLE 0207.Inq.2 Ask questions, make logical predictions, plan investigations, and represent data.

GLE 0207.T/E.2 Apply engineering design and creative thinking to solve practical problems.

GLE 0207.12.2 Realize that things fall toward the ground unless something holds them up.

✓ **0207.12.2** Describe what happens when an object is dropped and record the observations in a science notebook.