

Egg Spinning Activity

Learning Objectives:

1. Students will get a better understanding of Newton's 1st law of motion regarding inertia.
2. Students will observe the how various types of fluids can move independently of the shell.

Type of Teacher Tool: Small Group and/or Individualized/Differentiation Activity

Targeted Grade Level(s): 6-12

Targeted Curriculum Areas: Math, Science, STEM

Videos/Resources/Materials Needed:

1. Physics 10: Oil and Friction
2. Physics 11: Newton's First Law of Motion
3. 1 hard boiled egg per student or group
4. 1 raw egg per student or group

Teacher Instructions:

1. Use the videos above to provide a context/frame of reference for the activity.
2. Give each student, or group, 1 raw egg, and 1 hard boiled egg.
3. Have student(s) test each egg one at a time. Spin each egg, then gently touch the egg to stop its motion.
4. Students should observe each egg after it stops for a few seconds and record results.
5. Students should observe that after a short time, the raw egg will start spinning again without being touched.
6. Discuss how the raw egg is fluid inside the shell vs. the boiled egg being solid.

Assessment/Evaluation Option:

1. Have students speculate, research and write a short report on the reason(s) the egg started to spin again.