



Speed and Motion: Teacher Tips & Helpful Hints

N.C.S.S: 3.P.1 Understand motion and factors that affect motion.

- The Student Activity Pack is broken up into three different activities:
 - **Forces, Motion, and Direction** (3.P.1.1)
 - **Races** (3.P.1.2)
 - **CIBL Flyer** (3.P.1.3)

Activity 1: Forces, Motion, and Direction

- There is a *Forces, Motion, and Direction: Student Activity Sheet* available.
- There is a *Forces, Motion and Direction: Google Slides* in the 5E model that has literacy integration.
- The ping pong ball will bounce and stay in a close area.
- Extension: In part 3 students can exchange drawings and see if they can complete their partners path.

Activity 2: Races

- There is a *Races: Student Activity Sheet* available.
- There is a *Races: Google Slides* in the 5E model that has literacy integration.
- Student should make sure the labels are on the flat surface and not the tape measure.
- Students will need a timing device for Part 3.

Activity 3: CIBL Flyer

- There is a *CIBL Flyer: Student Activity Sheet* available.
- There is a *CIBL: Google Slides* in the 5E model that has literacy integration.
- Students will need to practice dropping their CIBL flyer multiple times. It should spin.

N.C.S.S Clarifying Objectives

- 3.P.1.1 Infer changes in speed or direction resulting from forces acting on an object.
- 3.P.1.2 Compare the relative speeds (faster or slower) of objects that travel the same distance in different amounts of time.
- 3.P.1.3 Explain the effect of earth's gravity on the motion of any object on or near the earth.