

Balance & Motion- Teaching the Objectives

NCSCOS Science Goal 4

The learner will make observations and conduct investigations to build an understanding of balance, motion and weighing of objects.

4.01- Describe different ways in which objects can be moved.

This objective is covered in the Foss unit kit-

Investigation # 5- Spinning Tops
Investigation #11- Rolling Two Cups
Investigation #12- Rolling Spheres

4.02- Observe that movement of an object can be affected by pushing or pulling.

This objective is covered in the Foss unit kit-

Investigation # 5- Spinning Tops
Investigation # 6- Making Tops
Investigation # 7- Zoomers

4.03- Investigate and observe that objects can move steadily or change direction.

This objective is covered in the Foss unit kit-

Investigation # 8- Twirlers
Investigation # 9- Rolling Wheels
Investigation #10- Rolling a Cup
Investigation #11- Rolling Two Cups
Investigation #12- Rolling Spheres

4.04- Observe and describe balance as a function of position and weight.

This objective is covered in the Foss unit kit-

Investigation #1-Trick Crayfish
Investigation # 2- Triangle and Arch
Investigation # 3-The Pencil Trick

4.05- Describe and observe systems that are unstable and modify them to reach equilibrium.

This objective is covered in the Foss unit kit-

Investigation #1-Trick Crayfish
Investigation # 2- Triangle and Arch
Investigation # 3-The Pencil Trick
Investigation #4- The Mobiles
Investigation # 9- Rolling Wheels
Investigation #10- Rolling a Cup