St. Peter’s Catholic School

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Grade 3 Motion and Force Study Guide

Vocabulary to Study:

* Position: objects location, where something is
* Gravity: noncontact force that pulls objects towards one another
* Force: push or pull
* Motion: change in position of object
* Friction: contact force that opposes motion of object
* Speed: rate at how fast object changes position

Other topics to study:

-The heavier an object (more mass) the more needed to move the object

-Magnetic fields are strongest near their poles

-Opposite poles attract

-The pull of gravity gives an object its weight.

Short answer to study:

Is it harder to push an empty shopping cart, or a full shopping cart?

A full shopping cart requires more force because it has a higher mass. You have to overcome more friction. (You have to push harder since it’s heavier.)