Notes

Chapter 11

Changing Motion

Bellringer

What is force?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Balanced Forces

* A heavy book on your desk will not move. Gravity pulls the book down toward earth. The desk pushes up on the book. The strength of the desk’s push up is equal to the strength of gravity’s pull down. The two forces are balanced.

Unbalanced Forces

* Let’s say you want to push a heavy book across your desk. There is friction between the book and the desk. You must overcome the friction to move the book. If you do move the book, your push is stronger than the friction.
* These forces are not balanced.

Why does an object have weight??

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* An object has weight because gravity force pulls it down. Weight is also a force. Weight is measured in newtons. The newton is named for the scientist Isaac Newton.