Name:

Motion & Design  
Study Guide

5.P.1 Understand force, motion, and the relationship between them.

5.P.2 Understand the interactions of matter and energy and the changes that occur.

How to Study…

* FLASHCARDS! You made ‘em so use ‘em!
* Review all of your notes from this quarter.
* Review your glossary.
* Use the website! Videos, notes, games, PowerPoints…
* Grab a highlighter and highlight all the items on this Study Guide that you need to focus on the most as you study. It is also wise to number them (with number 1 being top priority).
* Go to sleep on time (maybe even 10 minutes early) the night before.
* Get up on time (maybe even 10 minutes early) the morning of the test.
* BREATHE! You can do this, young grasshopper.

What You Need to Know…

* Building Process: Plan, Build, Test, Evaluate, Repeat
* Technical Drawing & Technological Design
* Profile vs. Aerial View
* Force, Motion, Speed, Velocity, Momentum, Acceleration, etc.
* How mass, friction, and weight affect the motion of a vehicle
* Potential vs. Kinetic Energy
* Balanced vs. Unbalanced Forces
* Newton’s Laws of Motion
  + Inertia
* Three Types of Friction: Rolling, Static, Sliding
* Air Resistance and Aerodynamic Basics
* How a Propeller Works
* Physical vs. Chemical Changes
* Three Types of Heat Transfer

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