

Motion & Forces
Textbook 338-355 & 374-399

Comprehension (Answer using complete sentences)

- 1. How do you know if an object is moving or in motion? Explain**
- 2. How do you calculate the speed of an object?**
- 3. How do you calculate the Average speed of something moving?**
- 4. When does the velocity of an object change?**
- 5. What do you need to remember when you are graphing speed?**
- 6. How do you calculate the acceleration of an object?**
- 7. What is the difference between a speed vs. time graph and a distance vs. time graph?**
- 8. Explain how force is related to motion.**
- 9. Why does friction happen?**
- 10. What are the four types of friction? Explain how each happens.**
- 11. Explain Newton's first law of motion and give an example of how it works.**
- 12. Explain Newton's second law of motion and give an example of how it works.**
- 13. Explain Newton's third law of motion and give an example of how it works.**

Key Vocabulary (After reading the definition in the book, write what you think it means in your own words)

- 1. Reference point**
- 2. Distance**
- 3. Displacement**
- 4. Instantaneous speed**
- 5. Velocity**
- 6. Acceleration**
- 7. Force**
- 8. Friction**
- 9. Gravity**
- 10. Weight**
- 11. Air Resistance**
- 12. Compression**
- 13. Tension**