

Name _____ Date _____ Class _____

Forces • Guided Reading and Study

Friction and Gravity *(continued)*

5. How is friction involved in sledding and skiing?

6. Why does some friction occur with seemingly smooth surfaces?

7. Complete the following table about the different kinds of friction.

Friction	
Kind of Friction	Friction Occurs When ...
	An object moves through a liquid or gas
	Solid surfaces slide over each other
	An object rolls over a surface
	Objects are not moving

8. Which kind of friction requires more force to overcome, rolling friction or sliding friction? _____

9. What kind of friction occurs when moving parts have ball bearings?

10. How does oil between machine parts reduce friction?

Gravity (pp. 344-345)

11. A force that pulls objects toward each other is called _____.

12. Is the following sentence true or false? The force that makes an apple fall to the ground is the same force that keeps Earth orbiting the sun.

13. What does the universal law of gravitation state?

14. The force of attraction between two objects varies with what two factors?

15. What is weight?

16. How is weight different from mass?

17. Weight is usually measured in _____.