

## Chapter 5 Review Guide

1. What is a force?
2. What can you do with two forces acting in the same direction?
3. What two things can happen when forces act in opposite directions?
4. What must be true of the forces for them to be added together?
5. What will balanced forces do to an object?
6. What will unbalanced forces do to an object?
7. What do you call the overall force when all forces are added together?
8. What is inertia?
9. What is Newton's first law of motion?
10. What is mass?
11. How can mass be described in terms of inertia?
12. What is Newton's second law of motion?
13. What is the equation that describes the relationship between force, mass and acceleration?
14. What are two ways to increase acceleration?
15. What is friction?
16. On what two factors does the strength of the force friction depend?
17. What are the three types of friction? Describe each.

18. What is gravity?
19. When is an object in free fall?
20. Describe terminal velocity.
21. What do we call an object that is thrown?
22. What two factors affect the strength of air resistance?
23. What is weight?
24. Your weight on the moon would be about what fraction of your weight on Earth?
25. What equation describes weight?
26. What is the law of universal gravitation?
27. What is Newton's third law of motion?
28. What is the equation that describes momentum?
29. What is the law of conservation of momentum?
30. What is the unit for momentum?
31. What is a satellite?
32. What do we call any force that causes an object to move in a circle?
33. Why do satellites not fall into the earth?