

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## Chapter 2 Concept Review

### PHYSICS

**Directions:** Answer the following questions using your notes and textbook

1. \_\_\_\_\_ – is a push or pull
2. A force is needed to change an object's state of \_\_\_\_\_.
3. State of motion may be one of two things
  - a. At \_\_\_\_\_
  - b. Moving \_\_\_\_\_ along a \_\_\_\_\_-line path.
4. Combination of all forces acting on object is called \_\_\_\_\_.
5. If forces acting on object equal \_\_\_\_\_ then we say the \_\_\_\_\_ force acting on the object = 0
6. Scientific units for force are \_\_\_\_\_ (N)
7. Force of \_\_\_\_\_ pulling down (also called \_\_\_\_\_)
8. Forces can be represented by \_\_\_\_\_.
9. Length of arrow represents amount ( \_\_\_\_\_ ) of force.
10. Direction of arrow represents direction of \_\_\_\_\_.
11. Vector quantity- needs both \_\_\_\_\_ and \_\_\_\_\_ to complete description (i.e. force, velocity, momentum)
12. Scalar quantity- can be described by \_\_\_\_\_ only and has no \_\_\_\_\_ (i.e. temperature, speed, distance)
13. When net force equals \_\_\_\_\_, object is said to be in mechanical \_\_\_\_\_.
14. \_\_\_\_\_ symbol stands for "the sum of"
15. \_\_\_\_\_ force- the upward force that balances the weight of an object on a surface.

16. Support force often called \_\_\_\_\_ force.

17. For an object at \_\_\_\_\_ on a horizontal surface, the support force must equal the objects \_\_\_\_\_.

18. Equilibrium can exist in both objects at \_\_\_\_\_ and objects moving at constant \_\_\_\_\_ in a straight-line path.

19. Objects at rest are said to be in \_\_\_\_\_ equilibrium.

20. Objects moving at constant speed in a straight-line path are said to be in \_\_\_\_\_ equilibrium.

21. Parallel vectors

a. Add vectors if in same \_\_\_\_\_

b. Subtract vectors if in \_\_\_\_\_ direction

c. The sum of two or more vectors is called the \_\_\_\_\_ vector.

22. Non-parallel vectors

a. Construct a \_\_\_\_\_ to determine resultant vector

b. The diagonal of the parallelogram shows the \_\_\_\_\_

