

NAME _____

DATE _____

FORCE AND MOTION STUDY GUIDE

1. What is force? Give two examples.

2. What are the differences between matter and position?

3. When does gravity act on a soccer ball: when it is on the ground, kicked into the air, or when it is falling back down to the ground? Explain your answer.

4. Josh has a soccer ball that weighs 30 pounds and Steven has a golf ball that weighs 2 pounds. Which ball will fall at a faster rate? Explain your answer.

5. Two blocks are launched with the same force. Block A is heavier than than Block B. Describe the motion of the blocks.

6. This table shows the weights of three balls. Each one will be pushed at the same time. Which ball must be pushed the hardest, so that they are all at the same speed. Why?

Ball	Weight
1	2 pounds
2	4 pounds
3	8 pounds

7. What is the difference between weight and mass? Give an example.

8. Give an example of both potential and kinetic energy.
