Name Period Date

Friction and Gravity Open Book Quiz

1. The strength of the force of friction depends on what two factors? (2 points)

2. Complete the following table about the different kinds of friction (4 points)

|  |  |
| --- | --- |
| **Kind of Friction** | **Friction Occurs When…** |
|  | An object moves through a fluid |
|  | Solid surfaces slide over each other |
|  | An object rolls over a surface |
|  | Objects are not moving |

3. How much do objects accelerate as they fall?

4. Does the horizontal movement of a projectile affect its acceleration toward the Earth?

5. Why does an object in free fall accelerate?

6. True or false, weight is how heavy an object is.

7. Circle the correct answer. Some objects accelerate toward Earth more slowly. This is because of:

a. static friction b. gravity

c. they are further from the ground d. air resistance

8. The two factors affect the gravitational attraction between objects are and . (2 points)

9. Finish the sentence: The law of universal gravitation states that…

10. The more mass an object has, the its gravitational force.