Gravity Mr. Stewart

Physical Science November, 2012

1. What is the Universal Law of Gravity?
2. What causes gravity to vary?
3. On Earth, what is the acceleration due to gravity?
4. Define weight.
5. What is the unit of mass? What is the unit of acceleration? What is the unit of weight?
6. Who first recognized the gravitational force?
7. What does the universal force of gravity act between?
8. On Earth’s surface, what does the gravitational force equal?
9. Why is the strength of gravitational force not constant between two objects?
10. Gravitational force is directly proportional to \_\_\_\_\_\_\_\_\_ and inversely proportional to \_\_\_\_\_\_\_\_\_\_\_.
11. What is Newton’s Law of Universal Gravitation often called? Why?
12. What does the Law of Universal Gravitation allow?
13. What is ‘action at a distance?”
14. What is a gravitational field?
15. What does the Earth respond to?
16. What is the formula for gravitational field strength?
17. At the Earth’s surface, what is the formula for calculating the gravitational field strength?