

Bill Nye Gravity Worksheet

Answer these questions as you watch the video.

1. What makes the earth go around the sun? _____
2. **Does gravity push or pull?** _____
3. Does gravity affect the **air we breathe**? _____
4. _____ **Where does gravity pull towards?**
 - A. Up
 - B. Down
 - C. Sideways
 - D. All directions
5. **When the apple and the bowling ball are dropped together:** _____
 - a.) they both hit the ground at the same time
 - b.) the apple hit the ground first
 - c.) the bowling ball hit the ground first
6. Who dropped **a feather and a hammer** together to see if gravity pulled on them the same amount? _____
7. **What happened** to the feather and hammer when dropped? _____

8. We use a _____ to measure our weight.
9. As gravity pulls down on us the springs in the scale get _____.
 - A. Pulled Apart
 - B. Squeezed
10. **True or False** The more the scale's springs get squeezed, the more you weigh.
11. **Weight** comes from **our mass, Earth's mass** and _____.
12. _____ All the **planets in orbit around the** _____ are held in place by gravity.
 - A. Earth
 - B. Moon
 - C. Sun

13. _____ **Why don't the planets get pulled into the sun?**

- A. They are in motion
- B. They have anti – gravity in them
- C. They do – just slowly

14. Our Earth is going around the Sun at about _____ **kilometers per hour.**

15. Jupiter is **larger or smaller** than the Earth

16. Jupiter has **more or less** gravity than the Earth

17. The moon is smaller, so it has _____ gravity.

18. The **pull of gravity makes the earth** and all planets into this **shape** _____.

19. With gravity things fall _____.

20. **Quote from Skateboarding section:**

One thing that always remains constant is gravity.

Gravity will always be the _____ no matter where you go or how you do it.

(This is true anywhere on Earth.)

21. Gravity pulls us down toward the _____ of the earth.

22. _____ **Name the scientist known for dropping two bowling balls of different weights off the Leaning Tower of Pisa.**

- A. Sir Isaac Newton
- B. Galileo