Bill Nye Gravity Worksheet

Watch this video on U-Tube to help you learn about Gravity. Fill in the worksheet as you watch the video.



**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 breaths?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_How does gravity pull?
5. Up
6. Down
7. Sideways
8. All directions
9. When the apple and the bowling ball are dropped together:\_\_\_\_\_\_\_
10. They both hit the ground at the same time
11. The apple hits the ground first
12. The bowling ball hit the ground first
13. Who dropped a feather and a hammer together to see if gravity pulled on them the same amount?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. What happened to the feather and hammer when dropped?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
    amount?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. We use a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_to measure our weight.
16. As gravity pulls down on us the springs in the scale get\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
17. Pulled Apart
18. Squeezed
19. **True or False.** The more the scale’s springs get squeezed, the more you weigh.
20. **Weight** comes from our mass, Earth’s mass and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
21. \_\_\_\_\_\_All the **planets** in **orbit around the** \_\_\_\_\_\_\_\_\_\_\_\_\_are held in place by gravity.
22. Earth
23. Moon
24. Sun
25. \_\_\_\_\_\_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

1. Our Earth is going around the Sun at about \_\_\_\_\_\_\_\_kilometers per hour.
2. Jupiter is **larger or smaller** than the Earth.
3. Jupiter has **more or less** gravity than the Earth.
4. The moon is smaller, so it has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_gravity.
5. The **pull of gravity makes the Earth a**nd all planets into this **shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
6. With gravity things fall \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**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.)

1. Gravity pulls us down toward the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the Earth.
2. \_\_\_\_Name the scientists known for dropping two bowling balls of different weights off the Learning Tower of Pisa.
3. Sir Isaac Newton
4. Galileo