**Bill Nye The Science Guy--Gravity**

**Answer these questions as you watch the video.**

1. What makes the Earth go around the Sun?\_\_\_\_Gravity\_\_\_
2. Does gravity push or pull?\_\_\_pull\_\_\_\_\_
3. Does gravity affect the air we breaths?\_\_\_\_\_\_\_yes\_\_\_\_\_\_
4. \_\_B\_\_\_How does gravity pull?
5. Up
6. Down
7. Sideways
8. All directions
9. When the apple and the bowling ball are dropped together:\_\_A\_\_\_\_\_
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?\_\_\_\_David R Scott….Apollo 15 Mission\_\_\_
14. What happened to the feather and hammer when dropped?\_ Hit ground at same time\_\_\_
15. We use a \_\_scale\_\_to measure our weight.
16. As gravity pulls down on us the springs in the scale get\_B\_\_.
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 \_\_gravity\_\_.
21. \_\_C\_\_\_All the **planets** in **orbit around the** \_\_\_\_\_\_\_\_\_\_are held in place by gravity.
22. Earth
23. Moon
24. Sun
25. \_\_\_A\_\_\_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 \_\_100,000\_\_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 \_less\_gravity.
5. The **pull of gravity makes the Earth a**nd all planets into this **shape \_spherical—(balls)\_.**
6. With gravity things fall \_\_\_\_\_down\_\_\_\_\_.

**Quote from Skateboarding section:**

One thing that always remains constant is gravity.

Gravity will always be the \_\_\_same\_\_\_no matter where you go or how you do it.

(This is true anywhere on Earth.)

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