**Building Blocks of Science: Gravity**

Find under **Nature and Science**

1. **What is gravity?**
2. **What would happen if there was no gravity?  
   The strength of gravity is dependent on two things. What are they?  
   Complete the statements:**
3. **The further the distance between two objects the \_\_\_\_\_\_\_\_\_\_\_ the pull of gravity between them.**
4. **The \_\_\_\_\_\_\_\_\_\_\_\_ the mass an object has, the more it pulls on objects around it.**
5. **Explain why your body is pulled toward the Earth?**
6. **How is gravity measured?**
7. **What do scientists use to measure gravity?**
8. **What has a stronger pull of gravity?**
9. **Elephant**
10. **Mouse**
11. **Why would you weigh less on the moon than you do on earth?**
12. **Why does a hammer fall faster than a feather when dropped?**
13. **What is friction?**
14. **What factors determine how fast or slow an object will fall through matter?**
15. **What happens to friction in space?**
16. **Explain the idea of inertia?**
17. **Compare what would happen to a soccer ball if you kicked it in space compared to kicking it on Earth?**
18. **Explain the differences between what happens to the soccer ball in space and on Earth.**
19. **How does the sun’s gravity affect the planets?**
20. **What stops planets from crashing into the sun?**
21. **How does the moon’s gravity affect Earth?**
22. **How do scientists believe gravity played a role in the formation of the sun and the planets?**
23. **How do black holes form?**
24. **Why are black holes considered the most violent and powerful objects in the universe?**