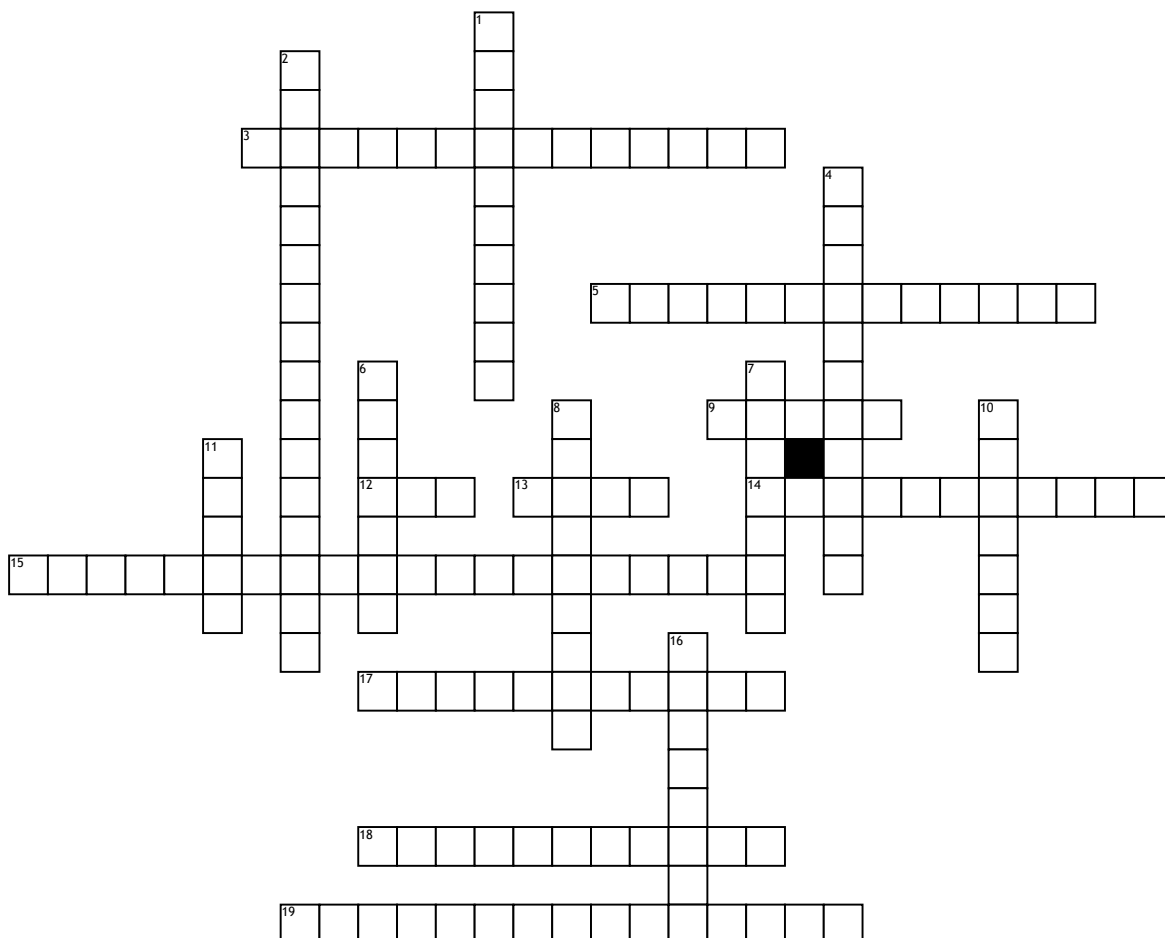


Name: _____ Date: _____

putting the fun in FUNdamental particles



Across

3. Which greek phrase means 'said only once'
 5. What fundamental particle is responsible for bacon?
 9. Which type of particle consists of a quark and an antiquark?
 12. Which particles shares a name with the constant equal to the ratio of the radius of a circle to its circumference
 13. Which fundamental force is responsible for beta decay?
 14. Which famous polymath was born on 13th June 1773?

15. Which product of beta minus decay has a lepton number of -1
 17. How long ago was the big bang to the nearest hundred petaseconds?

18. A _____ is a subatomic particle not composed of other particles.

19. The _____ force causes interaction between charged particles

Down

1. Who wrote the book in which the word quark was first used?
 2. I have two down quarks and one up quark, what do I have?

4. These particles act as exchange particles

6. Which category of particles are not affected by the strong nuclear interaction?

7. I have two down quarks and an up quark, what particle have I made?

8. What is the capital of Palau?

10. A _____ diagram can be used to show the actions of gauge bosons

11. What did the particle physicist duck say?

16. This theoretical particle is involved in gravitational attraction