

Quiz Review

Directions: Use your notes and other handouts to help answer the questions below. Then, follow along and check your answers while we go over the handout. You can expect to see these questions in some way, shape, or form on the quiz.

1. What are the parts of the atom, their charges, and their locations?
2. The atom is the _____ of all matter.
3. How are the atoms in a compound bonded together?
4. When sugar is dissolved in water, the sugar is the _____ and the water is the _____.
5. _____ is the amount of matter in an object.
6. _____ is the amount of space an object takes up.
7. The ability for one substance to dissolve in another is known as _____.
8. When a material melts, it goes from a _____ to a _____.
9. When a material boils, it goes from a _____ to a _____.
10. When calculating density, you need the _____ and the _____ of the object.
11. The particles in a _____ are compact and close together and they vibrate in place.
12. The particles in a _____ have a little bit of space in between them but still touch and they slide past one another.
13. The particles in a _____ are spread out and move very quickly/chaotic like.
14. _____ is how easily heat moves through a substance while _____ is how easily electricity moves through a substance.
15. When you travel to the moon, which property changes and what other property stays the same no matter what?

16. How could you separate a mixture of pebbles and sand?
17. How could you separate a mixture of tiny pieces of iron and sand?
18. How could you separate a mixture of salt-water?
19. List what type of atoms and the ratio of atoms present in the following compound CO_2 .
20. The two classifications of matter are _____ and _____.
21. A substance's composition _____ vary while a mixtures composition _____ vary.
22. The two types of substances are _____ and _____.
23. An _____ has one type of atom while a _____ has more than one type of atom chemically bonded together.
24. The two types of mixtures are _____ mixtures and _____ mixtures.
25. A homogeneous mixture is _____ mixed.
26. A heterogeneous mixture is _____ mixed.
27. Use the equation to solve the problem below. Make sure that you show the three steps and do not forget your units!!!

$$D = m/V$$

An object has a mass of 33.5 grams and a volume of 8.7cm^3 . What is the density of the object?