7C1 – Atoms and Elements Recall Questions

1. Name the three states of matter.
2. Which state of matter:
   1. Has a fixed shape
   2. Can be compressed
   3. Has particles that only vibrate
   4. Can flow
3. What change happens to a substance as it goes above freezing point?
4. Describe how the movement of particles changes during this process.
5. What is the process of turning from liquid to gas called?
6. Describe how the movement of particles changes during this process.
7. Why do solids have a fixed shape?
8. What does diffusion mean?
9. Why does heating a substance make diffusion faster?
10. Describe an everyday example of diffusion in your home.
11. Metals have a high density. What does this mean?
12. Why do arm bands float in water?
13. Calculate the density of a block with a volume of 5cm3 and a mass of 10g
14. Calculate the mass of a block with a volume of 10cm3 and a density of 0.2g/cm3
15. Archimedes was the first person to figure out how to measure the volume of weirdly shaped objects (he measured a crown). How did he do this?