

Chapters 3: Atomic & Subatomic Particles

3.1 What is alchemy and are alchemists all 'evil and bad'?

3.2 Founder of modern chemistry?

Lavoisier 2 experimentations

Figure 3.4

1) What principle does it prove?

2) Is there a chemical reaction? Why?

Figure 3.5

1) Is there a chemical reaction? Why?

2) Why does the water rise in the vessel?

Figure 3.6

1) Is there a chemical reaction? Why?

2) Why does the water rise in the vessel?

Law of definite proportion: H_2O , $\text{C}_6\text{H}_{12}\text{O}_6$

3.3 Dalton's atomic theory

List 5 aspects and comment on if it is right or not by our current understanding

Dmitri Mendeleev and his contribution

3.4 Subatomic particles

3.5 Figure 3.17 Rutherford's experiment

3.6 - Describe the experiment and list 2 things he found?

Comparison of the subatomic particles

Isotopes and their notations

Atomic mass and amu