

Homework Questions Week 9

Please complete on separate paper, marking each Thursday

1. Research

Briefly summarize the work of one of the following **Chemists** as they contributed to the development of the Periodic Table (one paragraph one picture)



John Newlands, Johann Wolfgang Dobereiner or Dimitri Ivanovich Mendeleev

2. States of Matter,

List the 5 known states of matter. Which of these are most common?

b) Explain how you should separate 3 immiscible liquids (liquids which do not mix)

c) What is the difference between simple and fractional distillation?

d) What is a centrifuge? When and how is it used?

e) What is sublimation? List some common substances which sublime.

3 A hydrocarbon contains 75% carbon. What is the empirical formula?

4. Calculate the percentage composition of each element in the following compounds

- a) lithium hydroxide LiOH
- b) lead(II) oxide PbO
- c) lead(IV) oxide
- d) strontium nitrate

