

# BBC BITESIZE CHEMISTRY WEB QUEST

Log-in and go to the school's homepage. Then type in the following URL:

<http://www.bbc.co.uk/education/guides/zsp4jxs/revision>.

Answer the following questions exactly to receive full credit. You will only be given this ONE class period to do this assignment. If you squander your time, you will NOT be given any extra time and will zero on this task!

1. First link – **Atomic number, mass number, and isotopes**
  - a. Fill in the Properties of sub-atomic particles table

Particle	Relative Size	Relative charge

b. What are ions?

c. How many isotopes of Hydrogen are there?

What are they or rather how are they written?

d. What is the  $A_r$  formula?

**2. Link two – Development of the Periodic Table**

a. Who was Newlands, and what did he do?

b. Who was Mendeleev, and what did he do?

c. What is the Law of Octaves?

d. Copy down the table comparing and contrasting their two tables.

<b>Newlands' Table</b>	<b>Mendeleev's Table</b>

### 3. Third link – Groups and Periods

a. List the five properties of metals:

- 1.
- 2.
- 3.
- 4.
- 5.

b. List the four major properties of nonmetals:

- 1.
- 2.
- 3.
- 4.

c. Transition metals are good \_\_\_\_\_.

d. Fill in the list and uses of Noble Gases Table.

Noble Gas	Uses

4. Fourth link – Group 7 - \_\_\_\_\_

a. What does the word “halogen” mean?

b. Copy properties and uses of halogens table

Chemical	Properties	Uses

c. How does Br react with iron wool?

***Final summative and formative question:***

How did this web quest help you to better understand the Periodic Table, the atom, and the terms we have been using lately in class? **(This should be a DETAILED response for FULL credit!! You have been warned!!)**