**Atoms, Elements and Compounds Tasks**

Lesson 1: Elements, Compounds and Mixtures

**Task 1**: Complete the spaced retrieval questions. Try answering these from memory!

**Task 2**: Read through the information on slides 5 to 9 and make notes.

**Task 3**: Answer the questions about atoms, elements and molecules.

**Task 4**: Read through the information on slides 12 to 14 and make notes.

**Task 5**: Answer the questions about compounds and mixtures.

**Task 6:** Watch the video about elements, compounds and mixtures, shown on slide 18.

**Task 7:** Make your own model of an element, a compound or a mixture!

**Task 8:** Decide whether the substances shown on slide 20 are elements, mixtures or compounds.

**Task 9:** Complete the elements, compounds and mixtures worksheet.

Lesson 2: Chemical Formulae

**Task 1:** Complete the spaced retrieval questions. Try answering these from memory!

**Task 2:** Watch the video shown on slide 28 to recall what we covered last lesson.

**Task 3:** Read through the information on slides 29 to 30 and make notes.

**Task 4:** Match the chemical symbols to the correct elements.

**Task 5:** Read through the information on slides 33 to 34 and make notes.

**Task 6:** Use the internet to find the chemical formulae of the molecules on slide 35.

**Task 7:** Read through the information on slides 37 to 38 and make notes. Watch the video shown on slide 39 if you are still unsure.

**Task 8:** Complete the table on slide 40 showing how many atoms are in each compound.

**Task 9:** Test how much you have learnt by completing the BBC Bitesize quiz shown on slide 42.

Lesson 3: Atomic Structure

**Task 1:** Complete the spaced retrieval questions. Try answering these from memory!

**Task 2:** Read through the information on slides 47 to 48 and make notes. Draw and label a picture of an atom.

**Task 3:** Make your own model of an atom!

**Task 4:** Read through the information on slides 50 to 52 and make notes. Copy out and learn the table on slide 52.

**Task 5:** Watch the video about the structure of the atom, shown on slide 53.

**Task 6:** Answer the questions about the structure of the atom.

**Task 7:** Using the BBC Bitesize websites to help you, answer the questions about how the structure of the atom was discovered. Watch the video shown on slide 61 if you would like to learn more.

**Task 8:** Write a letter to Niels Bohr explaining how important his discoveries were.

**Task 9:** Test how much you have learnt by completing the true or false quiz on slide 63.

Lesson 4: Atomic and Mass Numbers

**Task 1:** Complete the spaced retrieval questions. Try answering them from memory!

**Task 2:** Read through the information on slides 69 to 73 and make notes.

**Task 3:** Work out the number of protons, neutrons and electrons in the elements shown on slides 74 to 78.

**Task 4:** Read through the information on slides 80 to 85 and make notes.

**Task 5:** Work out the number of protons in the elements shown on slide 86.

**Task 6:** Try to memorise the first 10 elements in the Periodic Table!

**Task 7:** Read through the information on slides 89 to 90 and make notes. Watch this video about isotopes, shown on slide 91.

**Task 8:** Work out the number of protons, neutrons and electrons are in the three isotopes of hydrogen.

**Task 9:** Answer the questions about isotopes.

Final Task!

**Create flashcards that you could use to test your own knowledge or someone else in year 7!**