

### Year 8 Science: Home Learning Week 3

Hello Year 8, hope you're all well... OK, I'll admit it, I'm missing your endless conversations now! The activities week focus on atoms, elements and the periodic table. Please complete the first four activities, the others are optional if you have time. There are also some "live lessons" available from the Field Studies Council over the next few weeks, I'll post details and links each week as they become available, again these are totally optional but should be interesting.

Take care, stay at home

Miss Johnston 😊

PS: There are some excellent boxed sets on BBC iPlayer at the moment

Sir David Attenborough: <https://www.bbc.co.uk/iplayer/group/p06m42d9>

The Planets: <https://www.bbc.co.uk/iplayer/episodes/p07922lr/the-planets>

From Ice to Fire: <https://www.bbc.co.uk/iplayer/episode/b09rzqp3/from-ice-to-fire-the-incredible-science-of-temperature-series-1-1-frozen-solid>

Astronauts - Do You Have What it takes?: <https://www.bbc.co.uk/iplayer/episodes/p05bf1jt/astronauts-do-you-have-what-it-takes>

Nature's Weirdest Events: <https://www.bbc.co.uk/iplayer/episodes/b01pqmqg/natures-weirdest-events>

Deadly 60: <https://www.bbc.co.uk/iplayer/episodes/b00t2kc7/deadly-60>

Task	Description
1	Visit these websites: <a href="https://www.bbc.co.uk/bitesize/guides/zt2hvp4/revision/1">https://www.bbc.co.uk/bitesize/guides/zt2hvp4/revision/1</a> and <a href="https://www.bbc.co.uk/bitesize/guides/z84wjxs/revision/1">https://www.bbc.co.uk/bitesize/guides/z84wjxs/revision/1</a> Read the information, watch the videos then test your understanding with the quizzes.
2	Use this interactive periodic table: <a href="https://www.rsc.org/periodic-table/">https://www.rsc.org/periodic-table/</a> Make a list of ten metal elements with their symbols and ten non-metal elements with their symbols.
3	Visit this website: <a href="https://bit.ly/2WAI31b">https://bit.ly/2WAI31b</a> How many elements with the consecutive letters "ni" can you name? Tip: You might want a copy of the periodic table handy to help you, this is tricky!
4	Find the definition of a compound and write down the names of three compounds and state the difference between a compound and a mixture.
5	Draw a poster to show year 5 pupils the difference between chemical and physical changes. Include an example for each. Include a description of how to identify a chemical change.
6	Draw a poster to show year 7 pupils how the periodic table works. Include examples of chemical symbols and try to explain how the elements are organised into groups and periods.

