

### Year 7 Science: Home Learning Week 3

Hello Year 7, hope you're all well... I miss our Science lessons! The activities week focus on particles – solids, liquids and gasses. 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 BBC Bitesize, revise your knowledge and complete the test: <a href="https://www.bbc.co.uk/bitesize/guides/z2wmxnb/revision/1">https://www.bbc.co.uk/bitesize/guides/z2wmxnb/revision/1</a>
2	Draw labelled particle diagrams for a solid, liquid and a gas.
3	Write definitions, either dictionary or in your own words, for the following: solid, liquid, gas, matter, and particle.
4	There are substances like jelly, ice cream, custard and paint that seem to be both liquid and solid. Make a table for jelly showing what properties it has as a solid and what as a liquid. You need to think about size, (volume) and shape.
5	Produce a leaflet detailing how a hot air balloon works. Include a labelled diagram, and explain your answer using the particle theory.
6	Watch this Amoeba Sisters video about diffusion: <a href="https://www.youtube.com/watch?v=jhszFBtBPoI">https://www.youtube.com/watch?v=jhszFBtBPoI</a> Produce a cartoon strip to show how making a cup of tea illustrates diffusion with the teabag and dissolving with the sugar cube. You may do this as one or 2 cartoon strips.

