**S1 Science**

**Human body**

Follow this link and watch the class clips. <https://www.bbc.co.uk/bitesize/topics/zmjtb9q/resources/1>

Read the pages on this link about the skeletal and muscular systems: <https://www.bbc.co.uk/bitesize/guides/zpkq7ty/revision/1>

Do the quiz and check your score. <https://www.bbc.co.uk/bitesize/guides/zpkq7ty/test>

Read the pages on this link about the skeletal and muscular systems:

[https://www.bbc.co.uk/bitesize/topics/zf339j6/articles/z7gpfcw](https://www.bbc.co.uk/bitesize/topics/zf339j6/articles/z7gpfcw )

Do the quiz and check your score. <https://www.bbc.co.uk/bitesize/topics/zf339j6/articles/z7gpfcw>

Read these pages on lung capacity. <https://www.bbc.co.uk/bitesize/topics/zvrrd2p/articles/zm3xh39>

Read this page on human organs, watch the video clips and do the quiz. <https://www.bbc.co.uk/bitesize/topics/znyycdm/articles/zbpdqhv>

Use this interactive simulation to learn how the whole body works. <https://35058.stem.org.uk/humanbody/index.html>

Use this website to learn about keeping healthy and heart rate.

<http://www.sciencekids.co.nz/gamesactivities/keephealthy.html>

**Extension**

* Make a model digestive system.
* Investigate factors that affect heart rate and make a graph of your results.
* Make a summary poster of everything you know/can find out about one or more human body systems.
* Research digestive system diseases such as Crohn's Disease or Coeliac disease and make a leaflet about them.

**Chemistry of Everything**

Watch this video link

<https://www.bbc.co.uk/bitesize/clips/zc9n34j>

Read this page and Watch the video and animation

<https://www.bbc.co.uk/bitesize/topics/zstp34j/articles/zqr4tv4>

Read these pages and draw diagrams of atoms, molecules and compounds

<https://www.bbc.co.uk/bitesize/guides/zt2hpv4/revision/1>

Watch this video link

<https://www.bbc.co.uk/bitesize/clips/zjdyr82>

Read these pages about the periodic table. Research the uses and history of at least 4 different elements. Present your research as either a poster, PowerPoint or a written report.

<https://www.bbc.co.uk/bitesize/guides/z84wjxs/revision/1>

<https://www.ducksters.com/science/periodic_table.php>

Read these pages on the pH scale. If you have coloured pens or pencils, make yourself a pH scale.

<https://www.bbc.co.uk/bitesize/guides/z89jq6f/revision/1>

Read this page

<https://www.ducksters.com/science/acids_and_bases.php>

Do this quiz!

<https://www.ducksters.com/science/quiz/acids_and_bases_questions.php>

**Extension**

* Look at this pie chart <https://www.emathematics.net/g5_circle_graph_interp.php>

Make a bar chart of this data

* Do some research into how smartphones are made and make a list of elements from the periodic table found in smartphones.
* Find out about the chemist Demetri Mendeleev. Find out what he discovered and about the importance of his work. Write a profile on him.

**Electricity**

Read this page and watch the video

<https://www.bbc.co.uk/bitesize/topics/zgy39j6/articles/z8mxgdm>

Watch this video

<https://www.bbc.co.uk/bitesize/clips/zxksb9q>

Read these two pages then do the test to check your learning.

<https://www.bbc.co.uk/bitesize/guides/zthyvcw/revision/1>

<https://www.bbc.co.uk/bitesize/guides/zthyvcw/revision/2>

<https://www.bbc.co.uk/bitesize/guides/zthyvcw/test>

Read this page on circuit symbols and diagrams. Make flashcards of the circuit symbols to test yourself with.

<https://www.bbc.co.uk/bitesize/guides/zsfgr82/revision/2>

Read this page on circuit diagrams and measuring current and voltage. Copy the diagrams to show how to measure current and voltage.

<https://www.bbc.co.uk/bitesize/guides/zsfgr82/revision/3>

Find a plastic ruler or comb. Rub it on your hair or on a woollen jumper. Use it to pick up tiny pieces of paper. Can you bend a narrow stream of water with it?

Find out about **lightning**. What causes lightning? How much energy is there in a lightning bolt? Can humans survive being struck by lightning? What happens if a human is struck by lightning? What should you do if you are caught outside in a lightning storm? Which countries on the world have the most lightning storms?

Make your own electroscope to study electric charge:

<https://thehomeschoolscientist.com/make-an-electroscope/>