

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-07a

I can use appropriate methods to measure, calculate and display graphically the speed of an object, and show how these methods can be used in a selected application.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-07b

By making accurate measurements of speed and acceleration, I can relate the motion of an object to the forces acting on it and apply this knowledge to transport safety.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-08a

I can help to design and carry out investigations into the strength of magnets and electromagnets. From investigations, I can compare the properties, uses and commercial applications of electromagnets and supermagnets.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-08b

Through experimentation, I can explain floating and sinking in terms of the relative densities of different materials.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-09a

Through investigation, I understand the relationship between current, voltage and resistance. I can apply this knowledge to solve practical problems.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-09b

By contributing to investigations into the properties of a range of electronic components, I can select and use them as input and output devices in practical electronic circuits.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-09c

Using my knowledge of electronic components and switching devices, I can help to engineer an electronic system to provide a practical solution to a real-life situation.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-10a

Using experimental evidence, I can place metals in an electrochemical series and can use this information to make predictions about their use in chemical cells.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-10b

Using a variety of sources, I have explored the latest developments in chemical cells technology and can evaluate their impact on society.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-11a

By recording and analysing sound signals, I can describe how they can be manipulated and used in sound engineering.

Sciences - Forces, Electricity and Waves
Fourth Level SCN 4-11b

By carrying out a comparison of the properties of parts of the electromagnetic spectrum beyond the visible, I can explain the use of radiation and discuss how this has impacted upon society and our quality of life.