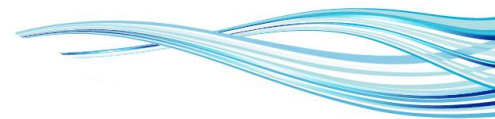
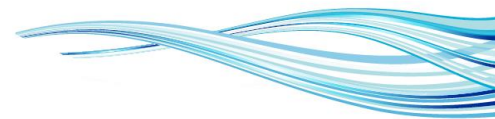


Year 7	Science Grade Descriptors
Progress Grade	Data Drop 1 - Autumn Term
Working Towards	A student can: <ul style="list-style-type: none">• Label the parts of the microscope, a plant, an animal and a unicellular cell and view these under a microscope.• Identify the arrangement, change of state, separation and movement of particles in the three states of matter.• Identify examples of forces (balanced/unbalanced) and their effects on objects.
Expected	A student can: <ul style="list-style-type: none">• Use a microscope to compare the parts of plant and animal cells and describe the function of specialised cells.• Describe the arrangement, change of state, separation and movement of particles in the three states of matter.• Describe examples and effects of forces and describe how to measure forces and give the unit of force.
Above	A student can: <ul style="list-style-type: none">• Use a microscope and calculate the total magnification used to observe an object.• Compare the plant and animal cells and describe the adaptations of specialised and unicellular cells.• Use the particle model to explain the properties and their change of state of a substance in its three states.• Describe the effects of the forces of friction, drag, gravitational and magnetic on objects.
Exceptional	A student can: <ul style="list-style-type: none">• Use a microscope to focus an image to compare the functions and adaptations of plant, animal and unicellular cells.• Compare the arrangement, separation, change of state and movement of particles in the three states of matter, using the particle model.• Apply ideas about particles to compare the friction and drag caused by different states of matter.• Explain the effects of balanced and unbalanced forces in unfamiliar situations.



Year 7	Science Grade Descriptors
Progress Grade	Data Drop 2 - Spring Term
Working Towards	A student can: <ul style="list-style-type: none">• Identify a function of the female and male reproductive systems, identifying the main structures involved in pregnancy.• Identify the parts of a flower which will develop into the seeds and the fruits.• Identify examples of chemical reaction and write word equations.• Identify how sounds are caused and how it travels in different states of matter.• Identify the key features of light and structures of the eye.
Expected	A student can: <ul style="list-style-type: none">• Describe the main stages of reproduction in animals to include, puberty, menstruation, fertilisation implantation and pregnancy.• Describe the main structures in a flower and the process of pollination and seed dispersal in plant reproduction.• Describe chemical reactions and write word equations for oxidation, combustion and decomposition reactions.• Describe how sound is produced and travels and how the ear and a microphone work.• Describe how light is emitted, travels and is detected or absorbed, including how light is reflected and refracted.
Above	A student can: <ul style="list-style-type: none">• Explain what occurs in the main stages of reproduction in animals to include, puberty, menstruation, fertilisation implantation and pregnancy.• Describe the main structures in a flower and the process of pollination and seed dispersal in plant reproduction.• Describe chemical reactions and write word equations for oxidation, combustion and decomposition reactions.• Explain the journey of light from an emitter to a receiver and apply the ideas of reflection and refraction.• Give details of how sound is produced and travels and how the ear and a microphone work.
Exceptional	A student can: <ul style="list-style-type: none">• Outline the main stages of reproduction in animals to include, puberty, menstruation, fertilisation implantation and pregnancy.• Explain the main structures in a flower and its role in pollination in plant reproduction.• Predict the reactants and products of oxidation, combustion, and decomposition reactions.• Explain the journey of light from an emitter to a receiver and apply the ideas of reflection and refraction.• Give details of how sound is produced and travels and how the ear and a microphone work.



Year 7	Science Grade Descriptors
Progress Grade	Data Drop 3 - Summer Term
Working Towards	A student can: <ul style="list-style-type: none">• Name some common properties of acids and alkalis and the type of substances made when an acid and alkali react.• Label hazard symbols and describe the hazards relating to them.• Name some objects in the Solar System and identify some patterns.• Describe the motion of the Sun, stars and Moon across the sky.• Name and describe differences between the seasons.
Expected	A student can: <ul style="list-style-type: none">• Compare the properties of different types of acids and alkalis.• Describe the steps in making a salt in a neutralisation reaction.• Identify and describe the meaning of hazard symbols and offer suitable safety precautions.• Describe how objects in the solar system are arranged.• Explain the motion of the sun, stars and moon across the sky.• Describe the appearance from diagrams of the Earth, Sun and Moon.
Above	A student can: <ul style="list-style-type: none">• Explain the difference between acid strength and acid concentration.• Explain how neutralisation reactions are used in a range of situations.• Explain the formation of salts from the displacement of acids.• Predict the effect of the Earth's tilt on temperature and day length.• Explain how the properties and features of planets are linked to their place in the solar system.• Explain how total eclipses are linked to phases of the moon.
Exceptional	A student can: <ul style="list-style-type: none">• Compare the use of a variety of indicators and a pH probe to measure acidity and alkalinity.• Deduce the hazards of different acids using data about their concentration and pH.• Interpret a graph of pH changes during a neutralisation reaction.• Compare explanations about the motion and structure of the Universe from different periods in history.• Explain how the properties and features of planets are linked to their place in the Solar System.