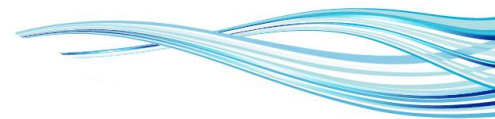


Year 7	Science Grade Descriptors
Progress Grade	Data Drop 1 - Autumn Term
Working Towards	A student can: <ul style="list-style-type: none">• Label the parts of the microscope, a plant, an animal and a unicellular cell and view these under a microscope.• Identify the arrangement, change of state, separation 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 8	Science Grade Descriptors Building on Year 7
Progress Grade	Data Drop 1 - Autumn Term
Working Towards	A student can: <ul style="list-style-type: none">• State what elements, compounds and mixtures are and give examples.• State the parts of the gas exchange system and a model of this.• Name nutrients found in food and sources of these, in a healthy diet.• State one effect of a drug, alcohol and smoking on health or behaviour.
Expected	A student can: <ul style="list-style-type: none">• Represent elements, mixtures, and compounds using particle diagrams and physical models.• Describe the role of different nutrients in the body and in a healthy diet.• Describe how the parts of the gas exchange system are adapted to their function.• Relate how drugs, alcohol and smoking can affect health and behaviour.
Above	A student can: <ul style="list-style-type: none">• Use particle diagrams to help to explain why a compound has different properties to the elements whose atoms it contains.• Explain how the adaptations of the parts of the gas exchange system help them perform their function.• Explain the importance of a healthy diet and outline how to test for different nutrients contained in food.• Describe the effects of alcohol, smoking and drugs on health and behaviour.
Exceptional	A student can: <ul style="list-style-type: none">• Deduce a pattern in the formula of similar compounds and use it to suggest formulae and properties for unfamiliar ones.• Link different nutrients to their functions and how to identify these in samples of food.• Explain how recreational drugs, smoking and alcohol can have a negative effect on people's lifestyles.• Use a model to represent and explain the adaptations of the breathing and gas exchange systems.