Depar	Department: Science Year Group: 11							
Term	Topic/Subject	Assessment Objectives and Knowledge acquisition	Skill building Intent	Wider reading to include numeracy and SMSC	SEND & PP Identify where access and learning is supported	Final assessment task and title		
Autumn	C6 Rates of reaction	Be able to find the rate of a chemical reaction by measuring the quantity of reactant or product used in g/s or cm ³ /s. (HT) use quantity of reactants in	Safely using specified equipment and conduct practicals to measure the rate of reactions.	Using ratios, fractions and percentages. Measuring		Graph question on rates of reaction Concentration 6		
		moles and rate of reaction in mol/s. Be able to draw and interpret graphs showing the quantity of product formed or reactant used up against	Take accurate measurements of changes in mass or gas volume.	Conversion of units.		marker – method for practical		
		time. Draw tangents to the curves of reaction rate graphs and use the slope of the tangent to measure the	Calculate rates of reaction from experimental data.	Drawing and interpreting graphs.				
		rate of reaction. (HT) calculate the gradient of a tangent to the curve on a reaction rate graph. Understand the factors which affect the rate of chemical reactions as	Draw graphs from experimental data, determining slope and intersect.	(HT) calculating gradient of a tangent. Calculate means.				
		concentrations of reactants, pressure, surface area, temperature and catalysts. Conduct a required practical to	Conduct a practical to investigate how changes in concentration affect reaction rate.	Safely working with others.				
		investigate how changes in concentration affect rates of reaction.	Develop a hypothesis.	Understanding that in industry				

Be able to explain how collision	Conduct a practical to	chemists and		
theory affects rates of reactions.	investigate catalytic	chemical	!	
Make predictions and explain the	effects on reactions.	engineers	!	
effects of changing conditions of		determine the	!	
reactions including changing the		effect of	!	
surface area to volume ratio.		different		
Be able to explain how catalysts		variables on		
affect the rate of reactions and		reaction rates		
explain catalytic action in terms of		to maximise		
activation energy.		the yield of		
Be able to identify and explain the		product in an		
reaction profile for a catalysed		energy and		
reaction.		time efficient		
Be able to describe what a reversible		way.		
reaction is.				
Understand energy changes in				
reversible reactions in terms of				
exothermic one direction,				
endothermic the opposite direction.				
Understand when equilibrium in a				
reversible reaction is reached.				
(HT) Be able to predict the effects of				
changing conditions on a system at			!	
equilibrium, applying Le Chatelier's			!	
Principle.				
(HT) Be able to interpret data to				
predict the effect of a change in				
concentration of a reactant or				
product, the change in temperature				
of a system and the change in				
pressure of a system on given				
reactions at equilibrium.				

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Autumn	B5 Coordination	Identify that homeostasis maintains	Explain, with an example,	Use simple	Discuss the social and	Data handling
	and control	optimal conditions for enzyme action	why new data from	mathematical	ethical decisions about	on reaction
		and all cell functions.	experiments or	processes to	the treatment of type 2	times
		Describe the conditions that are	observations led to	identify sugar	diabetes as a life style	experiment
		monitored and controlled within	changes in	levels	disease	
		humans	models or theories.	Read and	Consider the idea of	Reflex arc
		Describe how these automatic	Recognise/draw/interpret	interpret	healthy living and the	sequence
		control systems may involve nervous	diagrams.	graphs	consequences of this	extended
		responses or		Calculate %	Discuss the issues of	answer
		chemical responses	Outline a simple ethical		transplants include the	
		Identify these responses – receptor,	argument about the	Translate data	lack of donors, opt out	End of unit test
		coordination centre and effectors .	rights and wrongs of a	between	possibilities and	
		Students should be able to explain	new technology.	graphical and	reciprocal donations	
		how the structure of the nervous		numeric		
		system is adapted to its functions.	Translate data between	form.		
		Students should be able to explain	graphical and numeric	Use data to		
		how the various structures in a reflex	form.	make		
		arc – including the sensory neurone,		predictions.		
		synapse, relay neurone and motor	Students should be able	Recognise or		
		neurone – relate to their function.	to describe how kidney	describe		
		Students should understand why	dialysis works.	patterns and		
		reflex		trends in		
		actions are important.	Evaluate the advantages	data		
		Students should be able to describe	and disadvantages of	presented in a		
		the principles of hormonal	treating organ failure by	variety of		
		coordination and control by the	mechanical device or	tabular,		
		human endocrine system pituitary	transplant.	graphical		
		gland				

Students should be able to identify	HT Only	and other	
the positions of	Developments of	forms.	
Pancreas, thyroid, adrenal gland,	microscopy techniques	Draw	
ovary, testes.	have enabled IVF	conclusions	
Identify what glucose is used to and	treatments to develop.	from given	
why levels in the blood are important	Understand social and	observations.	
Describe how the body lowers blood	ethical issues associated		
glucose if levels rise	with IVF treatments.		
Identify the causes and symptoms of	Evaluate from the		
type 1 diabetes	perspective of patients		
Describe how a patient will manage	and doctors the methods		
the condition	of treating infertility.		
Describe the causes and treatments			
for type 2 diabetes			
HT Only – describe how glucagon			
regulates blood sugar and how			
glucagon and insulin interact			
Students should be able to identify			
the cerebral cortex, cerebellum and			
medulla on a diagram of the brain,			
and describe their functions.			
HT only) Students should be able to			
explain some of the difficulties of			
investigating brain function and			
treating brain damage and disease.			
(HT only)Explain tThe complexity and			
delicacy of the brain makes			
investigating and treating brain			
disorders very difficult.			
Students should be able to relate the			
structures of the eye to their			
functions.			



Describe how accommodation is the		
process of changing the shape of the		
lens to		
focus on near or distant objects and		
link this to eye sight issues		
Describe new treatments used to		
correct eye problems		
Describe how the body responds to		
changes in core temperature as part		
of a negative feedback cycle		
Identify the use of water within the		
body, where it is lost and gained		
Students should be able to describe		
the function of kidneys in		
maintaining the water balance of		
the body.		
(HT only) The digestion of proteins		
from the diet results in excess		
amino acids which need to be		
excreted safely. In the liver these		
amino		
acids are deaminated to form		
ammonia. Ammonia is toxic and so it		
is immediately converted to urea for		
safe excretion.		
Describe how The kidneys produce		
urine by filtration of the blood and		
selective		
reabsorption of useful substances		
such as glucose, some ions and		
water.		
HT only) Students should be able to		
describe the effect of ADH on the		
permeability of the kidney tubules.		
(HT only) The water level in the body		
is controlled by the hormone ADH		



which acts on the kidney tubules.		
Explain how people who suffer from		
kidney failure may be treated		
Students should be able to describe		
the roles of hormones in human		
reproduction, including the		
menstrual cycle. – LH, FSH, pestrogen		
and progesterone		
(HT only) Students should be able to		
explain the interactions of FSH,		
oestrogen, LH and progesterone, in		
the control of the menstrual cycle.		
(HT only) Students should be able to		
extract and interpret data from		
graphs showing hormone levels		
during the menstrual cycle.		
Students should be able to describe a		
variety of hormonal and non-		
hormonal methods of contraception		
They should be evaluate the uses of		
these methods of contraception		
HT only		
Students should be able to describe		
the process of IVF and explain the		
role of different hormones Students should be able to evaluate		
this process in terms of success and		
of the side effects		
Identify the role of thyroxine and		
adrenaline in the body		
darenamie in the body		
Biology only		
Identify the role of plant hormones		
in growth – auxins and giberellins		

		Describe how ethene Is used in plant ripening			
Autumn	P5 Forces	To understand what a scalar and	Be able to recall and	Apply the	Required
		vector quantity is, with examples. To describe what a force is and give examples of contact and non-contact	apply the equation for weight.	formula for weight with given	practical acceleration
		forces. Be able to describe the interaction	Be able to recognise and use the symbol of	variables.	6 mark question -Stopping
		between pairs of objects which produce a force on each other. Be able to describe what weight is	proportionality. Be able to recall and	Conversion of units.	distance
		and how the force of gravity changes around the Earth. Be able to calculate the weight of an	apply the equation for work done.	Apply the formula for work done	
		object from its mass and gravitational field strength. Know that weight is measured using a	Be able to safely demonstrate Hooke's law though practical.	with given variables.	
		calibrated spring-balance. Understand what resultant force is and be able to calculate the resultant	Be able to recall and apply the equation for	Rearrange equations.	
		force of two forces acting in a straight line. (HT) Be able to describe examples of	force on a spring. Be able to apply the	Apply the formula for force on a	
		forces acting on an isolated object or system.	equation for elastic potential energy.	spring with given variables.	
		(HT) Be able to use free body diagrams to describe qualitatively examples where several forces lead	Using appropriate equipment to make and	Apply the	
		to resultant force on an object, including balanced forces.	record a range of measurements and	formula for elastic	

To understand what work done is. Recall and apply the equation for calculating work done using force and distance moved.

Be able to describe the energy transfer when work is done.
Be able to convert between newtonmetres and joules.

Be able to give examples of the forces involved in stretching, bending or compressing objects.

Be able to explain why to change the shape of a stationary object more than one force has to be applied. Be able to describe the difference between elastic deformation and inelastic deformation caused by stretching forces.

Know that the extension of an elastic object, such as a spring, is directly proportional to the force applied, provided the limit of proportionality is not exceeded (Hooke's law). Be able to calculate force on a spring using it's spring constant and extension.

Describe the difference between a linear and non-linear relationship between force and extension.

Be able to calculate a spring constant in linear cases.

Be able to interpret data from an investigation between force and extension.

observations accurately in order to investigate the relationship between force and extension of a spring. Use results to produce a graph.

Be able to recall and apply the equation for moment of a force.

Be able to recall and apply the equation for calculating pressure at the surface of a fluid.

(HT) Be able to apply the equation for calculating pressure in a column of liquid.

potential energy with given variables.

Apply the equation for moments of a force.

Apply the equation for calculating pressure at the surface of a fluid.

Apply the equation for calculating pressure in a column of liquid.

Change the subject of an equation.

Substitute numerical values into algebraic equations using appropriate units.

Calculate work done in stretching a			
spring using the equation given for		Use ratios and	
elastic potential energy.		proportional	
Conduct a required practical to		reasoning to	
investigate the relationship between		convert units	
force and extension of a spring.		and compute	
Describe the turning effect of a force		rates.	
about a pivot.			
Explain and use the principle of		Apply the	
moments.		equation for	
Calculate the size of moments.		calculating	
Be able to explain how levers and		speed.	
gears transmit the rotational effects			
of forces.	Recall and apply the	Measure	
Understand a fluid is a liquid or gas.	equation for calculating	speed and	
Describe the pressure in fluids and	speed.	distance	
calculate the pressure at the surface			
of a fluid.	Using appropriate	Draw graphs	
(HT) Be able to calculate the	equipment to measure	of distance /	
pressure due to a column of liquid	distance and time	time	
and the differences in pressure at	accurately.		
different depths in a liquid.		Apply the	
(HT) Be able to describe the factors	Draw graphs of distance	equation for	
which influence floating and sinking.	and time to calculate	calculating	
Be able to describe a simple model of	speed.	acceleration	
the earth's atmosphere and of			
atmospheric pressure.	Recall and apply the	Draw graphs	
Explain why atmospheric pressure	equation for calculating	of velocity and	
varies with height above a surface.	acceleration.	time	
To be able to express a displacement			
in terms of magnitude and direction.	Draw graphs of velocity	Find the	
Recall that speed is a scalar quantity	and time to calculate	gradient of a	
and typical values of speed for a	acceleration.	graph	
person walking, running, cycling and			
speed for different types of	Calculate displacement	Apply the	
transportation.	of an object by	equation to	

Recall speed of sound is 330m/s.	calculating the area	calculate	
Be able to measure distance and time	under a velocity-time	resultant	
to calculate speed of objects and use	graph	forces	
the distance = speed x time equation,		Engineers	
Recall that velocity is a vector	Investigate the effect of	analyse forces	
quantity.	air resistance on a falling	when	
(HT) Explain qualitatively, with	object.	designing	
examples, that motion in a circle		many	
involves constant speed but changing		machines and	
velocity.		instruments	
Be able to draw distance-time graphs		we use every	
from measurements and extract and		day, from road	
interpret lines and slopes.		bridges,	
Be able to determine speed from the		fairground	
gradient of a distance-time graph.	Be able to recognise the	rides and cars.	
(HT) Be able to calculate the speed of	symbol for		
an accelerating object at a particular	proportionality	Recent	
time by drawing a tangent and		developments	
measuring the gradient of the	Recall and apply the	using analysis	
distance-time graph.	equation to calculate	of forces	
Be able to calculate acceleration	resultant force	include	
using the equation acceleration =		artificial limbs	
change in velocity/ time taken.	Recognise and use the	to make	
Be able to calculate the acceleration	symbol for approximate	movement	
of an object from the gradient of a	value	possible for	
velocity-time graph.		disabled	
Be able to apply the equation to	Use appropriate	people.	
calculate uniform acceleration.	equipment to make and		
Know that an object falling freely	record measurements to	Understand	
under gravity has an acceleration of	investigate the effect of	how terminal	
about 9.8m/s ²	force on acceleration	velocity	
Understand that eventually an object		relates to	
falling through a fluid will move at its		parachutes.	
terminal velocity.			
Be able to draw and interpret			
velocity-time graphs for objects that			

mount to make all and offer and Double
reach terminal velocity, and. Be able
to interpret the changing motion in
terms of forces acting.
To understand and apply Newton's
First Law regarding resultant forces
and motion of objects.
(HT) To know what inertia is.
To understand Newton's second Law
of motion regarding the acceleration
of an object.
Be able to recognise and use the
symbol for proportionality
Be able to recall and apply the
equation: resultant force = mass x
acceleration.
(HT) be able to explain that initial
mass is a measure of how difficult it is
the change velocity of an abject and
is defined as a ratio of force over
acceleration.
Be able to estimate speed,
accelerations and forces and
recognise the symbol for
approximate value/answer
To be able to carry out the required
practical to investigate the effect of
varying the force on the acceleration
of an object of constant mass, and
the effect of varying the mass of an
object on the acceleration produced
by a constant force.
Be able to describe and apply
Newton's Third Law when objects
interact they exert equal and
opposite forces on each other.
opposite forces on each other.

		To know what the stopping distance of a vehicle is. Be able to estimate how the distance for a vehicle making an emergency stop varies over a range of speeds. Be able to interpret graphs relating to stopping distances. Know that reaction times vary between people and can be affected by tiredness, drugs, alcohol and distractions. Be able to explain how to measure human reaction times Be able to interpret and evaluate measurements to measure reaction times. Be able to evaluate the effect of various factors on thinking distance from given data.			
Spring	C8 chemical analysis	Describe, explain and exemplify processes of separation. Suggest separation and purification techniques for mixtures. Distinguish pure and impure substances using melting point and boiling point data. Identify formulations given appropriate information. Explain the particular purpose of each chemical in a mixture. Explain how quantities are carefully measured for formulation. Explain how to set up paper chromatography.	 Recall the tests for four common gases. Identify the four common gases using these tests. Explain why limewater can be used for testing CO₂. Measure distances on chromatograms. Calculate R_f values. Record R_f values to an appropriate number of significant figures. 	Make estimates of the results of simple calculations. Use ratios, fractions and percentages. Recognise and use expressions in decimal form.	Required practical chromatography Method for the different tests – triple only End of unit test

		Distinguish pure from impure substances. Interpret chromatograms and determine $R_{\rm f}$ values. chromatography apparatus and how accurate measurements are achieved. Make and record measurements used in paper chromatography. Calculate $R_{\rm f}$ values Recall the tests for four common gases. Identify the four common gases using these tests. Explain why limewater can be used for testing ${\rm CO}_2$. Measure distances on chromatograms. Calculate $R_{\rm f}$ values. Record $R_{\rm f}$ values to an appropriate number of significant figures. Triple only- Identification of ions by chemical and spectroscopic means (chemistry only) Flame test, Metal hydroxides, Carbonates, Halides, Sulfates. Instrumental methods Flame emission spectroscopy	Triple only- Identification of ions by chemical and spectroscopic means (chemistry only) Flame tests An opportunity to investigate flame colours. An opportunity to make precipitates of metal hydroxides. Required practical 7: use of chemical tests to identify the ions in unknown single ionic compounds covering the ions from sections Flame tests to Sulfates. An opportunity to observe flame spectra using a hand-held spectroscope.			
Summer	C9 The atmosphere	Identify the gases of the atmosphere. Recall the proportions of the gases. Explain how the balance of the gases is maintained. Describe ideas about the Earth's early atmosphere. Interpret evidence about the Earth's early atmosphere.	 extract and interpret information about resources from charts, graphs and tables use orders of magnitude to evaluate the significance of data. Translate information 	To use ratios, fractions and percentages. use orders of magnitude to evaluate the significance of data.	Earth's atmosphere – looking at pollution	Effects of climate change research Describe how the atmosphere has changed over time Describe ways in which your



Evaluate different theories about the Earth's early atmosphere.		between graphical	Recognise and	family could reduce its
Identify the processes allowing oxygen levels to increase.		and numeric form. Required practical 8:	use expressions in decimal form.	carbon footprint End of unit test
Explain the role of algae in the composition of the atmosphere.		analysis and purification of water	Use ratios, fractions and	Lind of diffe test
Recall the equation for photosynthesis. Describe the main changes in the		samples from different sources, including pH,	percentages. Make estimates of	
atmosphere over time. Describe some of the likely causes of these changes.		dissolved solids and distillation	the results of simple	
Explain how the deposits of limestone, coal, crude oil and gas were formed.	•	LCAs should be done as a comparison of the impact on the	calculations. Use an appropriate	
Describe the greenhouse gases.		environment of the	number	
Explain the greenhouse effect.		stages in the life of a	of significant	
Explain these processes as interaction of short and long wavelength radiation with matter.		product, and only quantified where data is readily	figures.	
Describe two activities that increase the amounts of carbon dioxide and methane.		available for energy, water, resources and wastes.		
Evaluate the quality of evidence in a report about global climate change.	•	Interpret LCAs of materials or products		
Describe four potential effects of global climate change.		given appropriate information.		
Discuss the scale and risk of global climate change.		Recognise the importance of peer		
Discuss the environmental implications of climate change.		review of results and of communicating		
Explain that the carbon footprint can be reduced by reducing emissions of carbon dioxide and methane.		results to a wide range of audiences.		
Describe how emissions of carbon dioxide can be reduced.	•	Use fractions and percentages to describe the		

		Describe how emissions of methane can be reduced.		composition of mixtures.			
		Give reasons why actions to reduce levels of carbon dioxide and methane may be limited.	•	Use ratios to determine the mass of products expected.			
		Give reasons why methane is difficult to reduce.	•	Calculate percentage yields in chemical			
		Describe how carbon monoxide, soot, sulfur dioxide and oxides of nitrogen are produced by burning fuels.		reactions.			
		Predict the products of combustion of a fuel knowing the composition of the fuel.					
		Predict the products of combustion of a fuel knowing the conditions in which it is used.					
		Describe and explain the problems caused by increased amounts of oxides of carbon, sulfur and nitrogen as pollutants in the air.					
		Describe and explain the effects of acid rain.					
		Evaluate the role of particulates in damaging human health.					
		Triple-Using materials (chemistry					
		only) Corrosion and its prevention					
		Investigate the conditions					
Caring	B6 Inheritance,	for rusting. Understand that meiosis leads to	1/10	delling behaviour of	Understand	Have an understanding	Genetic crosses
Spring	Variation and	non-identical cells being formed		omosomes during	and use	of the historical	assessment.
	Evolution	while mitosis leads to identical cells.		iosis.	fractions and	developments of our	400000
		Understand that sexual reproduction			percentages.	understanding of the	6 mark question
		involves the fusion of male and	Inte	erpret diagrams of the		causes and prevention	- Speciation in
		female gametes and what these are	stru	ucture of DNA.	Understand	of malaria.	a herring gul
		in animals and plants.			and use ratio		3 3
		Be able to explain how sexual		del insertions and	and	Consider ethical issues	
		reproduction leads to a variety in	del	etions in	proportion.	which may arise from	



offspring and asexual reproduction produces identical offspring.
Be able to explain how meiosis changes the number of chromosomes in gametes.

Be able to explain how fertilisation restores the number of chromosomes and how a new cell divides by mitosis to form an embryo.

Be able to describe the advantages and disadvantages of sexual and asexual reproduction.

Be able to describe how some organisms reproduce by both sexual and asexual reproduction depending on circumstances.

Be able to describe the structure of DNA and define genome.

Be able to discuss the importance of understanding the human genome project.

Be able to describe DNA as a polymer made from four different nucleotides.

Identify the four bases in DNA.
(HT)Explain that the bases A and T, and C and G, are complementary
(HT) Be able to recall a simple description of protein synthesis
(HT) Be able to explain how the structure of DNA affects the protein made.

(HT) Be able to describe how genetic variants may influence phenotype. (HT) Describe how mutations affect protein function.

chromosomes to illustrate mutations.

Complete Punnett square diagrams.

Carry out genetic crosses.

Make informed judgements about the economic, social and ethical issues concerning embryo screening given information.

Use the theory of evolution by natural selection in an explanation.

Explain the benefits and risks of selective breeding given appropriate information and consider the ethical issues.

(HT) Interpret information about genetic engineering techniques and make informed judgements about issues concerning cloning and genetic engineering, including GM crops.

Understand and use probability when predicting the outcomes of genetic crosses.

Use information given to produce an argument for/against.

embryo screening and gene therapy.

Understand how scientific theories change over time and can be the result of cooperation between scientists across the World.

Understand how some bacteria have evolved to become antibiotic resistant and the importance therefore of completing courses of antibiotics.

Understand ethical issues related to selective breeding but also the benefits it has in a growing population.

Understand the benefits and risks of cloning in agriculture and medicine and the ethical issues involved.

Be able to explain key terms for (HT) Interpret genetic inheritance such as gamete, information about chromosome, gene, dominant, genetic engineering recessive, genotype, phenotype, techniques and make informed judgements homozygous and heterozygous. about issues concerning Know that some characteristics are controlled by single genes but most cloning and genetic are the result of multiple genes engineering, including interacting. GM crops. Be able to use direct proportion an simple ratios to express the outcome Explain the potential of a genetic cross. benefits and risks of Be able to complete a Punnett square cloning in agriculture diagram and extract and interpret and in medicine and that information from genetic crosses and some people have ethical objections. family trees. (HT) Be able to use a Punnett square diagram to make predictions using Appreciate that the the theory of probability. history of evolution by Understand that some disorders are natural selection inherited; polydactyly from a developed over time and dominant allele and cystic fibrosis from information caused by a recessive allele. gathered by scientists. Be able to explain the economic, Extract and interpret social and ethical issues concerned with embryo screening. information from fossils. Understand how chromosomes Appreciate why the fossil record is incomplete. determine sex in humans. Recall that differences in the characteristics of individuals in a Interpret evolutionary population is called variation. trees Understand the genetic and environmental differences leading to variation. Recall that all species of living things have evolved from simple life forms.

Explain how evolution occurs through		
natural selection.		
Describe what selective breeding is,		
why it takes place and the problems		
caused by inbreeding.		
Be able to describe what genetic		
engineering is and the potential		
benefits and risks in agriculture and		
medicine.		
Describe how bacterial cells are		
engineered to produce human		
insulin.		
(HT) Be able to describe the main		
steps in the process of genetic		
engineering.		
Describe the process of cloning		
relating to tissue culture, cuttings,		
embryo transplants and adult cell		
cloning.		
Explain the evidence that led Darwin		
to propose the theory of evolution by		
natural selection.		
Be able to describe why the theory of		
evolution by natural selection was		
only gradually accepted and be able		
to compare it with other theories		
such as that of Jean-Baptiste		
Lamarck.		
Describe the work of Darwin and		
Wallace in the development of the		
theory of evolution by natural		
selection and explain the impact of		
these ideas on biology.		
Describe the development of our		
understanding of genetics including		
the work of Mendel.		

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Understand why the importance of	
Mendel's discovery was not	
recognised until after his death.	
To be able to describe the evidence	
for evolution including fossils and	
antibiotic resistance in bacteria.	
Be able to describe what fossils are,	
how they have formed and how they	
can show how different organisms	
have changed as life developed on	
earth.	
Describe what extinction is and the	
factors that contribute to the	
extinction of a species.	
Recall that bacteria develop that are	
resistant to antibiotics, which is	
evidence of evolution.	
Understand the mechanism by which	
antibiotic resistance develops.	
Understand the effects of the	
development of antibiotic resistance	
on the treatment of disease.	
Describe how to reduce the rate of	
development of antibiotic resistance.	
Understand the requirement for, and	
the impact of, new antibiotics.	
Recognise the difficulties associated	
with developing new antibiotics.	
Describe how living things have been	
classified into groups using a system	
devised by Carl Linnaeus.	
Describe how new models of	
classification have developed.	
Understand the use of evolutionary	
trees.	



Last updated: June 2023