

SCIENCE: Home Learning & Assessment Policy Summary

Science Year 9					
Topic	Assessment	Preparation	Revision	Extension	Play
Biology – Organisation - Summer	Organisation – End of Unit Test	Http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/enzymes/ http://www.bbc.co.uk/schools/gcsebitesize/science/triple_aqa/transport_systems/blood_system/revision/2/ http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/organism_energy/photosynthesisrev1.shtml	Doodle KS4 AQA mini-quiz: <ol style="list-style-type: none"> 1. Organisation 2. Enzymes in digestion 3. Heart and Lungs 4. Food tests practical quiz 5. Blood and blood vessels 6. Leaves AQA revision guides (new GCSE 1-9)	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)	Visit the Bodyworks Exhibit Out of plasticine make a human body featuring all the systems

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<p>Biology – Infection and diseases – Summer</p>	<p>Infectious diseases – End of unit test</p>	<p>http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel/problems_in_environment/infectiousdiseases_rev1.shtml</p> <p>http://www.bbc.co.uk/schools/gcsebitesize/science/aqa/keepinghealthy/defendingagainstinfectious_rev8.shtml</p> <p>http://www.bbc.co.uk/schools/gcsebitesize/science/21c/keeping_healthy/antibiotics_drug_testing_rev1.shtml</p>	<p>Doddle KS4 AQA mini-quiz:</p> <ol style="list-style-type: none"> 1. Pathogens and disease 2. Culturing microorganisms 3. Vaccination and medicine <p>AQA revision guides (new GCSE 1-9)</p>	<p>https://www.doddlelearn.co.uk/app/teacher?!Science/resources</p> <p>https://www.tassomai.com/home (if purchased subscription)</p>	<p>Listen to the following documentary:</p> <p>http://www.bbc.co.uk/programmes/p028t0q9</p>
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Chemistry – Bonding - Summer	Bonding – End of unit test	http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/bonding/structure_propertiesrev1.shtml http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/ionic_compounds/ionicanalysisrev1.shtml	Doddle KS4 AQA mini-quiz: <ol style="list-style-type: none"> 1. Ions, their compounds and bonding 2. Metallic and covalent bonding 3. Giant covalent structures AQA revision guides (new GCSE 1-9)	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)	Watch the khan academy video on the different types of bonding: https://www.khanacademy.org/science/biology/chemistry--of-life/chemical-bonds-and-reactions/v/ionic-covalent-and-metallic-bonds
Chemistry – Quantitative Chemistry – Summer	Quantitative chemistry – End of unit test	http://www.bbc.co.uk/schools/gcsebitesize/science/add_edexcel/quantitative/	Doddle KS4 AQA mini-quiz: <ol style="list-style-type: none"> 1. Formulae and equations 2. Conservation of mass AQA revision guides (new GCSE 1-9)	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)	

Physics – Electricity - Summer	Electricity – End of unit test	http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/electricity/	Doodle KS4 AQA mini-quiz: 1. Electrical Circuits AQA revision guides (new GCSE 1-9) AQA revision guides (new GCSE 1-9)	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription) Research the battles between the following pairs of scientists. What were they competing for? Volta and Galvani Tesla and Edison	Watch https://www.youtube.com/watch?v=Gtp51eZkwol Shock and Awe: The Story of Electricity -- Jim Al-Khalili BBC Horizon
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Science Year 10

Topic	Assessment	Preparation	Revision	Extension	Play
Biology – Homeostasis - Summer	Homeostasis – End of Unit Test	http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa_pre_2011/homeo/homeostasis1.shtml http://www.bbc.co.uk/schools/gcsebitesize/science/triple_edexcel/control_systems/the_urinary_system/revision/2/	Doodle KS4 AQA mini-quiz: <ol style="list-style-type: none"> 1. The nervous system 2. Controlling blood sugar 3. Removal of waste 4. Hormones and fertility AQA revision guides (new GCSE 1-9)	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)	Make your own models of the different types of neurones. Watch this TED talk about the kidneys https://www.youtube.com/watch?v=FN3MFhYPWWo
Biology – Variation Summer	Variation – End of unit test	http://www.bbc.co.uk/schools/gcsebitesize/science/ocr_gateway_pre_2011/ourselves/6_gene_control2.shtml http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel_pre_2011/genes/dnarev1.shtml http://www.bbc.co.uk/schools/gcsebitesize/science/add_ocr_gateway/living_growing/newgenesrev2.shtml http://www.bbc.co.uk/schools/gcsebitesize/science/ocr_gateway/understanding_environment/natural_selectionrev1.shtml http://www.bbc.co.uk/education/guides/zbrmn39/revision	Doodle KS4 AQA mini-quiz: <ol style="list-style-type: none"> 1. Asexual reproduction and cloning 2. Genetic engineering 3. DNA and altering genes 4. Evolution 5. Classification AQA revision guides (new GCSE 1-9)	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)	Read about a new way of editing genes: https://www.newscientist.com/round-up/crispr-gene-editing/

<p>Chemistry – Rates of reaction Autumn</p>	<p>Rates of reaction – end of unit test</p>	<p>http://www.bbc.co.uk/schools/gcsebitesize/science/add_aqa/reaction/ratesrev1.shtml</p> <p>http://www.bbc.co.uk/schools/gcsebitesize/science/ocr_gateway_pre_2011/rocks_metals/7_faster_slower1.shtml</p>	<p>Doddle KS4 AQA mini-quiz:</p> <ol style="list-style-type: none"> 1. Measuring reaction rates 2. Reaction rates and catalysts <p>AQA revision guides (new GCSE 1-9)</p>	<p>https://www.doddlelearn.co.uk/app/teacher/launch-content/269290e4-d79a-47b3-86f6-9969258fb765</p> <p>https://www.tassomai.com/home (if purchased subscription)</p>	<p>Use models to visualise how factors affect reaction rates – plasticine is a good idea!</p>
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<p>Forces Summer</p>	<p>Forces – End of unit test</p>	<p>http://www.bbc.co.uk/education/topics/zmj7hyc</p>	<p>Doddle KS4 AQA mini-quiz: 1. Acceleration 2. Speed and Velocity 3. Graphs and motion 4. Vectors and scalars 5. Gravity and Weight 6. Elasticity 7. Contact and non-contact forces AQA revision guides (new GCSE 1-9)</p>	<p>https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)</p>	<p>Design and make a parachute to have the lowest terminal velocity as possible.</p> <p>Design and make (the fastest) rubber band powered car as possible.</p> <p>Calculate what you would weigh on each planet</p> <p>Draw a speed/time graph of a 5minute clip of your favourite sport game / film.</p>
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Science Year 11

Topic	Assessment	Preparation	Revision	Extension	Play
Biology – Ecology Summer	Ecology - end of unit test	http://www.bbc.co.uk/schools/gcsebitesize/science/aqa/interdependence/ http://www.bbc.co.uk/schools/gcsebitesize/science/aqa/energy_biomass/	Ecology AQA revision guides (new GCSE 1-9)	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)	Plan an investigation to observe the biodiversity in your own backyard. Plants; construct your own quadrant and results table. Birds or arthropods; design your own key to identify different species.

<p>Chemistry Atmospheric Chemistry Summer</p>	<p>Atmospheric chemistry - end of unit test</p>	<p>http://www.bbc.co.uk/schools/gcsebitesize/science/aqa/earth/</p>	<p>AQA revision guides (new GCSE 1-9)</p>	<p>https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)</p>	<p>Research how gas chromatography could be used in forensics to detect poisons. Research how ultraviolet light can be used in forensics to detect forgeries.</p>
<p>Physics - Forces Summer</p>	<p>Forces – End of unit test</p>	<p>http://www.bbc.co.uk/education/topics/zmj7hyc</p>	<p>Doddle KS4 AQA mini-quiz: 1. Acceleration 2. Speed and Velocity 3. Graphs and motion 4. Vectors and scalars 5. Gravity and Weight 6. Elasticity 7. Contact and non-contact forces AQA revision guides (new GCSE 1-9)</p>	<p>https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)</p>	<p>Design and make a parachute to have the lowest terminal velocity as possible. Design and make (the fastest) rubber band powered car as possible. Calculate what you would weigh on each planet Draw a speed/time graph of a 5minute clip of your favourite sport game / film.</p>

Magnetism and Summer	Magnetism and electromagnetism – End of unit test	http://www.bbc.co.uk/education/topics/z7dj6sg	Doddle KS4 AQA mini-quiz: 1. Electromagnetism 2. Magnetism Doddle Transformer worksheet Doddle The generator effect worksheet.	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription) Research the use of electromagnets.	Make a model (working) of the national grid.
Space (Triple students only) Summer	Space – End of unit test	http://www.bbc.co.uk/education/topics/zt2xsbk	Doddle KS4 Stars worksheet. Doddle KS4 AQA mini-quiz: 1. Stars 2. Red shift 3. Orbits 4. the Solar System	https://www.doddlelearn.co.uk/app/teacher?#!Science/resources https://www.tassomai.com/home (if purchased subscription)	Either construct a model to represent the life cycle of stars or make a movie to show the life cycle of a star. Watch 'The Martian' film. Watch https://www.youtube.com/watch?v=bGjQFgGrBXs Watch https://www.youtube.com/watch?v=ztfDDw-sbVQ

