KEYWORD GLOSSARY

AUTUMN TERM 1



YEAR 9



English:

| Key Word | Definition |
|---------------|--|
| Dystopia | An imaginary place where everything is as bad as it can be. |
| Utopia | An imaginary place where everything is perfect and everyone is happy, but which you feel is not possible. |
| Authoritarian | If you describe a person or an organisation as authoritarian, you are critical of them controlling everything rather than letting people decide things for themselves. |
| Equality | When society is equal for everyone. |
| Inequality | When society or a situation is unequal; when some people have more than others. |
| Democracy | A system of government in which people choose their rulers by voting for them in elections. |
| Dictatorship | A country which is ruled by a dictator or by a very strict and harsh government. |
| Totalitarian | A political system is one in which there is only one political party which controls everything and does not allow any opposition parties. |
| Repression | The use of force to restrict and control a society or another group of people. |
| Surveillance | The careful watching of someone, especially by an organisation such as the police or the army. |
| Paranoia | If you say that someone suffers from paranoia, you think that they are too suspicious and afraid of other people. |
| Manipulation | If you say that someone manipulates people, you disapprove of them because they skilfully force or persuade people to do what they want. |
| Propaganda | Information, often inaccurate information, which a political organisation publishes or broadcasts in order to influence people. |
| Censorship | The censoring or restriction of books, plays, films, or reports, especially by government officials, because they are considered immoral or secret in some way. |
| Distrust | If you distrust someone or something, you think they are not honest, reliable, or safe. |
| Ideology | An ideology is a set of beliefs, especially the political beliefs on which people, parties, or countries base their actions. |
| Allegory | An allegory is a story, poem, or painting in which the characters and events are symbols of something else. Allegories are often moral, religious, or political. |



Maths:

| Key Word | Definit | ion | | | | | |
|--------------|-----------------|--|----------------------|----------------------|----------------------|------------|-------------------------|
| Hypotenuse | The long | The longest side in a right angled triangle | | | | | |
| Pythagoras | 1 | Pythagoras was a Greek philosopher who made important developments in mathematics, astronomy, and the theory of music. | | | | | |
| Pythagoras' | Pythagor | as disco | vered tha | at the squ | uare of th | ne 2 short | ter sides in a right |
| Theorem | angled tr | iangle a | dd to ma | ke the sq | uare of t | he hypot | enuse $a^2 + b^2 = h^2$ |
| Adjacent | The side angle. | The side in a right-angled triangle that is between the given angle and right angle. | | | | | |
| Opposite | | The side in a right-angled triangle that is opposite the given angles and connected to the hypotenuse. | | | | | |
| Sin θ | The ratio | The ratio of the sides of a right-angled triangle $sin\theta = \frac{Opposite}{Hypotenuse}$ | | | | | |
| Cos θ | The ratio | The ratio of the sides of a right-angled triangle $cos\theta = \frac{Adjacent}{Hypotenuse}$ | | | | | |
| Tan θ | The ratio | The ratio of the sides of a right-angled triangle $tan\theta = \frac{Opposite}{Adjacent}$ | | | | | |
| Exact Values | | 0° | 30° | 45° | 60° | 90° | |
| | $\sin(\theta)$ | 0 | $\frac{1}{2}$ | $\frac{1}{\sqrt{2}}$ | $\frac{\sqrt{3}}{2}$ | 1 | |
| | $\cos(\theta)$ | 1 | $\frac{\sqrt{3}}{2}$ | $\frac{1}{\sqrt{2}}$ | $\frac{1}{2}$ | 0 | |
| | $\tan(\theta)$ | 0 | $\frac{1}{\sqrt{3}}$ | 1 | $\sqrt{3}$ | unde fined | |



Science: <u>9B2 Biology Topic 2 – Infectious Diseases, Defence Systems</u> and Medicines

Topic Keywords SHORTLIST: Full list of keywords on the VLE Science Resources 9B2 Topic Page.

| Key Word | Definition |
|---------------------|--|
| pathogen | Microorganisms that cause infectious disease. |
| virus | Type of pathogen that reproduces rapidly inside body cells, causing cell |
| VII us | damage. |
| bacterium | Unicellular microorganism that can be a pathogen. |
| tovin | Poisonous substance produced by bacteria, animals, or plants that damage |
| toxin | tissues. |
| measles | Viral disease showing symptoms of fever and a red skin rash. |
| HIV | Viral disease that initially causes a flu-like illness and later attacks the |
| піч | body's immune cells. |
| salmonella | Bacterial disease producing toxins that cause fever, abdominal cramps, |
| Samionena | vomiting and diarrhoea. |
| gonorrhoea | Bacterial disease causing thick yellow or green discharge from the vagina |
| gonornioea | or penis and pain on urinating. |
| malaria | Protist disease causing destruction of red blood cells, fever, and |
| Illalalla | uncontrollable shaking. |
| white blood cells | Specialised cell that defends against pathogens by phagocytosis, antibody |
| Willte blood cells | production and antitoxin production. |
| | Protein produced by lymphocytes that are specific to the antigens of a |
| antibodies | pathogen and either cause pathogens to stick together ready for |
| | destruction by phagocytosis or destroy the pathogen directly by lysis. |
| | Introducing small quantities of dead or inactive forms of a pathogen into |
| vaccination | the body to stimulate the white blood cells to produce antibodies. If the |
| Vaccination | same pathogen re-enters the body the white blood cells respond quickly to |
| | produce the correct antibodies, preventing infection. |
| antibiotic | Substance that controls the spread of bacteria in the body by killing them |
| | or stopping them reproducing. |
| preclinical testing | The testing of new drugs using computer models, human cells grown in the |
| produited testing | laboratory, and animal cells for efficacy and toxicity. |
| | Phase One: The testing of new drugs (that have passed preclinical testing) |
| | on a small number of healthy humans for toxicity and dosage. |
| | Phase Two: The testing of new drugs (that have passed phase one) on a |
| clinical trials | small number of humans infected with the disease for efficacy. |
| | Phase Three: The testing of new drugs (that have passed phase two) on a |
| | large group of humans infected with the disease in blind or double-blind |
| | trials for efficacy, dosage, and reliability. |
| | Type of comparative clinical trial for testing new drugs where neither the |
| double-blind trial | humans infected with the disease nor their doctors know who is being |
| | given the new drug or a placebo. |
| placebo | Inactive substance made to look like the new drug being tested for |
| P.03000 | researchers to use as a control. |



Science: <u>9C2 Chemistry Topic 2 – The Earth's Atmosphere and Using Earth's Resources</u>

Topic Keywords SHORTLIST: Full list of keywords on the VLE Science Resources 9C2 Topic Page.

| Key Word | Definition |
|--------------------|---|
| fossil fuels | Natural fuels such as coal and gas, formed in the past from the remains of living |
| | organisms. |
| global climate | A long-term shift in global climate patterns. |
| change | |
| global dimming | A gradual reduction in the amount of light reaching the Earth's surface. This can |
| | be caused by carbon particulates. |
| greenhouse effect | The increase in the temperature of the Earth's atmosphere due to the greenhouse gases in the atmosphere trapping infra-red radiation from the |
| greeniiouse eriect | surface. |
| | Greenhouse gases include water vapour, carbon dioxide and methane. |
| greenhouse gases | Greenhouse gases in the atmosphere maintain temperatures on Earth high |
| | enough to support life. |
| particulates | Particulates cause global dimming and health problems for humans. Carbon |
| particulates | particulates (soot) are a product of incomplete combustion. |
| | Oxygen was produced in the early atmosphere by photosynthesis of plants and |
| photosynthesis | algae. This simultaneously decreased the amount of carbon dioxide in the early |
| | atmosphere. Equation for photosynthesis: $6CO_2 + 6H_2O \rightarrow C6 H12 O6 + 6O2$ |
| pollutants | A substance introduced into the environment that has undesired effects. |
| ponutures | A substance introduced into the crivil offinent that has undesired cricets. |
| | Bioleaching uses bacteria to produce leachate solutions that contain metal |
| bioleaching | compounds. |
| | |
| desalination | The process of removing salt from seawater. |
| | |
| displacement | A chemical reaction in which a more reactive element displaces a less reactive |
| | element from its compound. |
| | The splitting up of an ionic compound using electricity. The electric current is |
| electrolysis | passed through a substance causing chemical reactions at the electrodes and the |
| | decomposition of the materials. |
| finite resources | A non-renewable resource that cannot be readily replaced by natural means at a |
| | quick enough pace to keep up with consumption. |
| ground water | Water hold underground in the sail and erovices in rock |
| ground water | Water held underground in the soil and crevices in rock. |
| | Life cycle assessments are carried out to assess the environmental impact of |
| life cycle | products in each of these stages: extracting and processing raw materials, |
| assessment | manufacturing and packaging, use and operation during its lifetime, disposal at |
| | the end of its useful life. |



Science: <u>9P2 Physics Topic 2 – Motion, Forces and Elasticity</u>

Topic Keywords SHORTLIST: Full list of keywords on the VLE Science Resources 9P2 Topic Page.

| Key Word | Definition |
|----------------------------|--|
| speed | How far an object can travel per unit of time. |
| • | Calculated as distance/time, with units m/s. The distance travelled per second in a given direction. |
| velocity | Calculated as displacement/time, with units m/s. |
| acceleration | The change in velocity per second (measured in metres per second squared, m/s²) |
| force | A push or a pull. Measured in Newtons. |
| scalar | A quantity that only has magnitude*. E.g. Time, distance, mass, speed. |
| vector | A quantity that has magnitude (size) <u>and</u> direction. E.g. Velocity, acceleration, force, weight. |
| mass | How much matter something is made from (measured in kg) |
| weight | The downwards force of gravity acting on mass (measured in Newtons) |
| displacement | How far something is from its starting position, along with its direction (measured in metres). |
| resultant force | The (vector) sum of all forces on an object. |
| action at a distance force | An action at a distance force will act whether the objects are touching, or not. |
| air resistance | The force of air particles opposing the motion of an object. |
| balanced force | When the resultant force is zero, forces are balanced. |
| contact force | A contact force will act only if objects are touching. |
| equilibrium | An object in equilibrium, has balanced forces acting on it. |
| friction | A force that opposes slipping between touching solids. |
| Joule | The unit that energy is measured in, (J). |
| Newton | The unit that force is measured in, (N). |
| pressure | The force acting divided by the area where it acts. |
| sliding | When objects in contact move past each other. |
| streamlined | A shape reducing the amount of air resistance on an object. |
| tension | A pull force acting inside a stretched object (e.g. a stretched string or a spring). |
| unbalanced force | When the resultant force is not zero, forces are unbalanced. |
| upthrust | The up force caused by an object being in immersed in a fluid (like water). |



Geography:

| Key Word | Definition |
|---------------------------|---|
| Glacier | A large mass of ice that has been created under freezing conditions on the side of a mountain – this ice then begins to slide downhill due to gravity. |
| Cwm/Corrie/Cirque | A circular hollow that is found on the side of a mountain, created by processes of abrasion and plucking. |
| Arete | A sharp divide between 2 corries |
| Pyramidal Peak | A peak of a mountain created by 3 or more corries forming on various faces of the mountain |
| Moraine | The general term used to describe material that has been dumped by a glacier. The rocks/mud deposits are carried by the ice and left where the ice melts. |
| Terminal Moraine | Moraines that are left at the end of the glacier |
| Recessional Moraine | As a glacier retreats uphill due to climate warming, terminal moraines are left at the end of the ice. With a retreating glacier, several banks of terminal moraines show the previous end point of the glacier |
| Lateral Moraine | Material deposited on the side of the valley by the glacier |
| Pro-Glacial Lake | A lake that forms at the snout of the glacier, as meltwater gets trapped by previous terminal moraines. |
| Valley Glacier | A glacier flowing through the valley between 2 glaciers. |
| Ice Sheet | A very large expanse of ice that can cover a whole continent (e.g. Antarctica), or a country (e.g. Greenland) |
| Freeze-Thaw weathering | The act of water eroded rocks, by entering a crack, cooling, freezing, expanding. This repeated action causes rocks to disintegrate. |



History: The Holocaust

| Key Word | Definition |
|--------------------|--|
| genocide | an act committed with the intention of destroying a national, ethnic or |
| | religious group |
| Holocaust | the systematic, state-sponsored murder of six million European Jews by the Nazi German regime and its allies and collaborators |
| persecution | being treated badly, usually because of 'race' or religious or political beliefs |
| antisemitism | hostility to or prejudice against Jews |
| scapegoat | someone who is blamed for the wrongdoings, mistakes or faults of others |
| Nazi Germany | the German state between 1933 and 1945, when Adolf Hitler and the Nazi |
| | party controlled the country |
| dictator | a person who rules with total authority |
| concentration | places where large numbers of prisoners were kept under armed guard |
| camp | |
| death camp | killing centres established by the Nazis in Europe during the Second World War |
| the Final Solution | the Nazi policy to murder European Jews |
| ghetto | an area in a town or city where Jews were forced to live |
| Einsatzgruppen | special units of the Nazi German security police, who conducted mass |
| | shootings in the USSR |
| deportation | forcibly removing someone from one country to another |
| collaborator | a person, organisation or government that helped the Nazis persecute and |
| | murder the Jews |
| liberation | setting someone free |



Religious Education: The Problem of Evil

| Key Word | Definition |
|----------------------|---|
| | |
| Augustine | A Christian Saint who died in 130 AD |
| Augustinian Theodicy | Augustine' solution to the problem of evil is found in his |
| | theodicy. He says that God allows us to suffer because we |
| | deserve punishment (due to The Fall) |
| Evil | Something immoral and wicked |
| Free Will | The ability to make choices voluntarily and independently. |
| | The belief that nothing is pre-determined. |
| Inconsistent Triad | The problem of evil is an 'inconsistent triad' – in other |
| | words, three ideas but only two of them can be true. |
| | - God is all loving |
| | - God is all powerful |
| | - Evil exists |
| Irenaeus | A Christian Saint who died in 130 AD |
| Irenaean Theodicy | Irenaeus' solution to the problem of evil is found in his |
| | theodicy. He says that God allows us to suffer as it helps us |
| | develop as humans. |
| Omnibenevolent | The state of being all-loving and infinitely good - a |
| | characteristic often attributed to God |
| Omnipotent | The all-powerful, almighty and unlimited nature of God |
| Original Sin | The inclination to do evil found in all human beings- |
| | Christians believe to be inherited from Adam in consequence |
| n dita and | of the Fall. We are guilty and deserve punishment. |
| Punishment | A penalty given to someone for a wrong they have done |
| Sin | Deliberate immoral action, breaking a religious or moral law |
| Suffering | Pain or distress caused by injury, illness or loss. Suffering can |
| | be physical, emotional/psychological or spiritual. |
| The Fall | The event in the Bible when Adam and Eve are forced to |
| | leave the Garden of Eden because they have sinned against |
| | God (in the book of Genesis) |
| Theodicy | An argument that attempts to resolve the problem of evil. |
| The Problem of Evil | The challenge to faith that theists have when faced with evil |
| | in the world – how can an all loving and powerful God let it |
| | happen? Does God exist? |



Music: Piano Skills II

| Key Word | Definition |
|---------------|---|
| Sharp | This tells a musician to play one semitone higher (for example, a C sharp would mean they need to play one semitone higher than a C) |
| Flat | This tells a musician to play one semitone lower (for example, an A flat would mean they need to play one semitone lower than an A) |
| Natural | This resets any sharps or flats, so it tells us to play a normal C instead of a C sharp, for example. |
| Semitone | This is the space between every single note on a keyboard, including black notes |
| Tone | This is the equivalent of two semitones |
| Chord | Two or more notes played simultaneously (usually three or more notes) |
| Tonality | Whether something is major or minor |
| Major / minor | Major tends to be associated with positive emotions (a song might sound happy, or uplifting if it's major), whilst minor tends to be associated with negative emotions (a song might sound sad, or angry if its minor). |
| Scale | A series of conjunct notes played one after another. |
| Conjunct | Notes that are next to each other. |
| Disjunct | Notes that require a jump to reach. |
| Arpeggio | A series of notes that are spaced further apart than a scale and based on a chord, played one after another. |
| Metronome | A clicking noise that helps musicians keep time when they're practicing. |
| ВРМ | How many beats per minute there are in a tempo (a metronome will play faster if the BPM is higher, and slower if the BPM is lower) |



Physical Education: Tennis. Striking and Fielding

| Key Word | Definition |
|-----------------|--|
| | |
| Ace | A serve that lands in the service box and is not touched by the |
| | receiver. |
| Volley | A shot hit before the ball bounces, usually played at the net. |
| Forehand | A shot hit on the dominant side of the body, usually with one hand. |
| Backhand | A shot hit on the non-dominant side of the body, usually with one hand. |
| Scoring in | 0 (Love), 15, 30, 40, Game. If both players reach 40, it is called 'deuce'. |
| Tennis | You have to win two further points from deuce to win the game – |
| 1 (111113 | advantage, game. |
| Long barrier | A safe fielding technique in cricket and rounders to control a ball that is travelling |
| | along the ground. Using your legs, hands and twisting your body to create a |
| | barrier to stop the ball getting past. |
| Short barrier | A quick way of stopping a ball travelling along the floor in cricket and |
| | rounders. |
| Scoring in | 1 rounder – if the batter hits the ball and runs all the way around the |
| Rounders | pitch without stopping. |
| itouriaers | ½ rounder – two consecutive no balls to the same person. |
| | ½ rounder – if the batter hits the ball and runs to 2 nd base without |
| | stopping. |
| | ½ rounder – if the batter misses the ball, but all the way around the |
| | pitch to 4th base. |
| Over in cricket | An over consists of six legal deliveries bowled from one end of a cricket |
| Over in cricket | pitch to the player batting at the other end. |
| | pitch to the player batting at the other end. |



Drama: Analysing and creating comedy

| Key Word | Definition |
|---------------|---|
| William | Famous playwright |
| Shakespeare | |
| A Midsummer | A comedy play written by William Shakespeare |
| Night's Dream | |
| The | The group of workers in the play who put on a play (badly!) for the |
| Mechanicals | royal wedding. |
| Comedy | Work that encourages laughter from the audience |
| Analyse | To break down and understand how something works or what it |
| | communicates |
| In the round | Audience are sat in a circle around the performance space |