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# Diffusion osmosis and active transport worksheet answer key worksheet 1

Complete the warm up and exam questions on page 143 AND complete the worksheet to test your understanding. Chemistry Topic 7 - Organic Chemistry Hydrocarbons, fractional distillation, uses and cracking of hydrocarbons, alkenes and their reactions, testing for alkenes, addition polymers and alcohols. Particle model of matter 21. Additionally I would suggest watching the following for a short visual representation of the practicals. Magnetism and electromagnetism 8. (PDF) Click here to download the video How much energy is in food? Additionally attempt the year 10 worksheet to push yourselves Watch video 8 and Complete the warm up and exam question on Page 205 Make notes on the required practical on page 209/210 AND Complete the warm up and exam questions on page 211. Repeat this process until the muscles in the arm start to burn. Revise topics: Biodiversity & waste management Global warming Deforestation & land use Maintaining ecosystems & biodiversity Organic chemistry - all of topic 7 Purity and formulations Testing for gases Paper chromatography Step 1 : Watch Topic Playlist and Make Notes Step 2 : Attempt Exercises YEAR 10 - TERM 1 & 2 - coming soon YEAR 10 - TERM 3 Review pages 194 - 204 and answer the exam questions on page 199 and 206 of your biology textbooks for ecology. The energy transferred when glucose reacts with oxygen supplies all the energy needed for living processes. Space physics (physics only) Biology Paper 1 : Topics 1 - 4 Paper 2 : Topics 5 - 7 Chemistry Paper 1 : Topics 8 - 12 Paper 2 : Topics 13 - 17 Physics Paper 1 : Topics 18 - 21 Paper 2 : Topics 22 - 24 Biology Paper 1 : Topics 1 - 4 Paper 2 : Topics 5 - 7 Chemistry Paper 1 : Topics 1 - 5 Paper 2 : Topics 6 - 10 Physics Paper 1 : Topics 1 - 4 Paper 2 : Topics 5 - 8 Resources YEAR 9 - TERM 1 & 2 - coming soon YEAR 9 - TERM 3 Answer the exam questions on page 199 and 206 of your Biology textbooks. Erroneous ideas GCSE worksheet looking at common student errors about respiration. This activity is a great way to correct erroneous ideas that students may have about photosynthesis and respiration. Anaerobic respiration and fermentation GCSE worksheet on anaerobic respiration and fermentation. Ensure you now understand the topics at hand and write down any questions for next lesson. In eukaryotic cells, aerobic respiration takes place in mitochondria (anaerobic in the cytoplasm). Experiencing anaerobic respiration Ask students to hold one arm above their head and then open and close the attached hand quickly. Big idea: organisms require a supply of energy and materials for which they often depend on, or compete with, other organisms Key concept: respiration is an exothermic reaction which is continuously occurring inside living cells. Quantitative chemistry 4. The rate and extent of chemical change 14. Total viewing time is provided for the playlist. How to use the lessons Just follow these three easy steps... 1. Electricity 20. If your child is following the Triple Science route, they will cover the same topics however they will explore some of those topics in more depth. Energy 19. Bonding, structure, and the properties of matter 10. Chemistry Topic 7 - Organic Chemistry 132-144 Hydrocarbons, fractional distillation, uses and cracking of hydrocarbons, alkenes and their reactions, testing for alkenes, addition polymers and alcohols. We therefore recommend that you aim to cover just one 50-60 minute session each day. YEAR 9 YEAR 10 YEAR 11 GCSE Science Overview All pupils at TMS start their GCSE course at the beginning of Autumn term of Year 9. Complete the post mock worksheet attached, revisit topics to which you lost marks on in the mock. What are the endothermic reactions that can happen because of respiration? Atomic structure and the periodic table 9. Work through question sheets 1, 5, 7, 16 and 19. Complete the exam questions on page 150 from your chemistry textbooks and complete the attached worksheet with some past exam questions. Inheritance, variation and evolution 7. Organisation 3. Chemical analysis 9. Energy changes 13. Over the course of two years, they will complete the curriculum. Pupils will cover either GCSE Combined Science: Trilogy (which is the same as the old Double Science) and Triple Science (GCSE Biology, GCSE Chemistry & GCSE Physics). How much energy is transferred when we burn food? Click on the current term. Ask students what is happening and relate the position of the hand to oxygen availability. Atomic structure 22. Forces 23. Ecology Chemistry 8. Follow this link to a scientific investigation that asks students to determine the amount of energy present in Quavers and rice cakes. Physics Topic 6 - Waves 126-142 Wave basics, transverse and longitudinal waves, reflection and refraction, required practical investigating light and waves, EM waves, EM uses and dangers and lenses. Then probe deeper. You can then introduce the concept of anaerobic respiration and lactic acid. Comparing combustion with respiration The screaming jelly baby is a great demonstration to use when teaching respiration. 2. Spend some time making sure that students understand how the reactants of respiration i.e. glucose and oxygen arrive at a cell in the foot, for example, and how the products escape. Magnetism and electromagnetism GCSE Triple Science Triple scientist will cover the same topics as the Combined Scientist; however will cover some of the topics in more depth. riple science pupils will sit six GCSE exam papers (two in each Science) in May. Further reading Biological molecules Food tests Enzymes Photosynthesis Respiration ← Back to Biology teaching resources GCSE SCIENCE FULL COURSE & REVISION Year 9, 10 & 11 Hello there, Pupils, Parents and Carers! The Maths Society has curated a series of open-source science lessons for Year 9 & 10. Ecology 8. Chemistry of the atmosphere 10. The practical can be used to help students make the link between respiration and combustion. Cell biology 2. In Year 9 we start our course and aim to complete the entire GCSE Triple course in two years, covering Biology, Physics and Chemistry. 3. Chemical changes 12. Each exam will be 105min, worth 100 marks and count towards 50% of the GCSE. Because respiration can't be seen, it is helpful for students to make comparisons to the analogous process of combustion. Work through the exercises / homework set - either pdf/doc or CGP workbooks. Each exam will be 75min, worth 70 marks and count towards 16.7% of the GCSE. Organic chemistry 8. Using resources Physics 18. For example, 5/5, 6/7, 4/3, 8/9. Complete the exam questions on page 150 from your chemistry textbooks and complete the attached worksheet with some past exam questions. The aim is to cover all 24 topics within the course of Y9 & Y10, while still being assessed internally half termly as well as termly mock exams. Would it come back to life if we gave it oxygen? Watch the videos and make notes. Infection and response 4. Linked knowledge: cells, energy, chemical equations Misconception or error [scientific idea]: gas exchange and respiration are the same [respiration is a cellular process involving a chemical change, gas exchange simply involves the movement of gases from one place to another] plants don't respire or respire only at night [plants respire all the time]; inhaled air stays in the lungs or head [inhaled oxygen is transported to the cells via the circulatory system]. Every topic comes with a series of short videos breaking down the topic into bitesize modules. Key ideas Chemistry 1. Ask students what would happen to a worm if it was placed inside a sealed jar with plenty of food and water. Chemical analysis 16. Then consider what the energy is used for inside the cell i.e. for muscle contraction, protein synthesis, active transport or maintaining a constant internal body temperature. Students will be awarded grades using the 9-1 grading system for each subject. Physics Topic 6 - Waves Wave basics, transverse and longitudinal waves, reflection and refraction, required practical investigating light and waves, EM waves, EM uses and dangers and lenses. These short and sharp tutorial videos help students learn and revise key topics, while completing their homework. Chemistry of the atmosphere 17. By looking at respiration in plants first, many misconceptions linking breathing to respiration can be avoided. Forces 6. (PDF) Breathing and respiration are not the same GCSE activity on respiration and breathing. Additionally I would suggest watching the following for a short visual representation of the practicals. Complete the attached worksheet titled 'Topic 6 Physics'. Biology Topic 7 - Ecology competition, biotic and abiotic factors, adaptations, food chains, using quadrats and transects, carbon cycle, decay, biogas and investigating decay. Bonding, structure, and the properties of matter 3. Work through question sheets 1, 5, 7, 16 and 19. Regardless of what pathway they are following all pupils will study all 3 Sciences - Biology, Chemistry and Physics. Atomic structure and the periodic table 2. Try to illicit the idea it would die because it would run out of oxygen. Waves 7. What is brown fat and why do new born babies have quite a lot of it? Chemical changes 5. Make notes on pages 138-141 on alkenes, their reactions and polymers. Complete the exam questions - pg 136 & 137 AND past GCSE exam questions. Sullivan Respiration teacher brief Overview: respiration is a cellular process that happens continuously inside all living organisms. You have a fuel, oxygen and a huge amount of energy being transferred. Do plants get a temperature when they are sick? This activity looks at research that shows infected leaves have higher temperatures than healthy leaves. Aerobic respiration is exothermic. Students use a simple Venn diagram to consider the similarities and differences between combustion and respiration. What evidence suggests that mitochondria were once free-living bacteria? Students will be awarded two grades using the 9-1 grading system. Complete the exam questions on page 156 (Q1-2.4) in addition to the past paper questions attached. Complete the attached worksheet titled 'Topic 6 Physics'. Biology Topic 7 - Ecology 194-211 competition, biotic and abiotic factors, adaptations, food chains, using quadrats and transects, carbon cycle, decay, biogas and investigating decay. This open-style activity is an excellent platform to challenge students and assess their understanding of this fundamental process. Electricity 3. The rate and extent of chemical change 7. It is probably best used at the end of a teaching sequence on photosynthesis and respiration to check that students have arrived at the scientific way of thinking! The questions could provide a good stimulus for paired discussion or be used for an individual task. What are the similarities and differences of this reaction compared to cellular respiration? Bioenergetics 5. Energy 2. Students will revisit some of the topics throughout Y10 and 11, however we aim to complete the course end of Y10. For example: Biology - 8, Chemistry - 7, Physics - 6. Students work in groups of four to silently review what they already know about anaerobic respiration and fermentation in yeast. A regular daily learning routine will help to learn more effectively at home. Quantitative chemistry 11. Atomic structure 5. These exams are longer than the combined award as they are assessing extra content. If your child is doing GCSE Combined Science: Trilogy they will follow a pathway similar to those doing GCSE Triple Science and complete a total of 24 topics across the 3 science disciplines. Check the topic set as homework. Review the required practicals on page 128-129 and 132-133. Waves 24. About Awards Privacy Policy Permissions Stock Footage Contact © 1994-2022 James A. Revise topics: Biodiversity & waste management Global warming Deforestation & land use Maintaining ecosystems & biodiversity Organic chemistry - all of topic 7 Purity and formulations Testing for gases Paper chromatography Step 1 : Watch Video and Make Notes Step 2 : Attempt Exercises for Your Group After which we will focus on revision, past papers, topic tests, mark schemes and exam preparation until May, when GCSE Examination begin. GCSE Combine Science Trilogy 6 Exam papers 1 hr 30 min each 70 marks = 2 GCSEs GCSE Triple 6 Exam papers 1 hr 45 min each 100 marks = 3 GCSEs GCSE Combined Science: Trilogy Combined Science: Trilogy pupils will sit SIX GCSE exam papers (two in each Science) in May. In addition, complete the worksheet attached containing past GCSE exam questions. Watch video 8 and Complete the warm up and exam questions on page 205 Make notes on the required practical on page 209/210 AND Complete the warm up and exam questions on page 211 Complete past GCSE questions, pay particular attention to the 6 markers. Complete the exam questions - pg 136 & 137. They then answer a longer answer question comparing and contrasting these two important cellular processes. (PDF) Do they really get respiration? Energy changes 6. Complete exam questions on page 147 of your physics textbooks on lenses. When respiration stops, cells die. During respiration, the energy stored inside glucose is transferred, allowing work to be done inside the cell. Particle model of matter 4. Students use this research to think about the process of respiration and consider how it differs from breathing. The subject content topics are listed further down this guide. What is the oxygen used for? Please complete the exam questions on page 220 of your biology textbooks before completing the attached worksheet containing past exam questions. Please attempt the end of topic 7 worksheet booklet. Biology 1. Year 11 is spent revising, covering gaps, mastering exam technique and plenty of past papers practice. Homeostasis and response 6. When there is insufficient oxygen, the oxidation of glucose is incomplete and so lactic acid in animals (3C compound) or ethanol and carbon dioxide in plants (2C + 1C) is produced alongside some energy being transferred.



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