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New mastering science 2a

Carbon, Dioxide, Workbook, Solutions, Photosynthesis, Tube, Respiration, Multiple, Blanks, Splint, Interactive INTERACTIVE SCIENCE 2A Mastering Science Answers to Workbook 2A Unit 7 Unit 7 Living things and air A Sectional Exercise 7.1 Gases in the air I 1 2 3 4 5 6 True or false questions (p.1) F F T T F T (1 m each) II Fill in the blanks (p.1) 1 atmosphere 2 noble gas 3 glowing, oxygen 4 milky 5 carbon dioxide, higher (2 m each) III 1 2 3 4 5 6 (1 m each) Multiple-choice questions (p.2) D B C D D B IV Questions (p.4) 1 a Gas B is oxygen (1 m) because it relights a glowing splint. (1 m) b Gas A turns lime water milky. It is carbon dioxide. (1 m) The gas remains is gas C which does not relight a glowing splint and does not turn lime water milky. (1 m) Gas C is nitrogen. (1 m) c A (1 m) © Oxford University Press 2011 1 Mastering Science Answers to Workbook 2A 2 Unit 7 Gas in the air Nitrogen Oxygen Carbon dioxide Water vapour Noble gases Other gases Breathed air 78% 16% (0.5 m) 4% (0.5 m) Saturated 0.9% Variable Unbreathed air 78% 21% (0.5 m) 0.03% (0.5 m) Variable 0.9% Variable a b Neon. (Or other reasonable answers.) c Breathed air Unbreathed air d Test with Test with a burning hydrogencarbonate splint indicator The indicator changes from The burning splint burns red to yellow. (1 m) for a while and then goes out. (1 m) The indicator remains red. The burning splint burns for (1 m) a shorter time than it does in unbreathed air. (1 m) Breathe, dry cobalt chloride, blue, pink © Oxford University Press 2011 (1 m) 2 (4 m) Mastering Science Answers to Workbook 2A Unit 7 7.2 Air and burning I 1 2 3 4 5 True or false questions (p.6) T T F F F (1 m each) II Fill in the blanks (p.6) 1 Oxygen, temperature, oxygen 2 Carbon dioxide, water, chemical, heat, light 3 Fuel, oxygen, high temperature, triangle 4 oxygen 5 oxygen © Oxford University Press 2011 3 (2 m each) Mastering Science Answers to Workbook 2A III 1 2 3 4 5 Unit 7 Multiple-choice questions (p.7) C B B B D (1 m each) IV Questions (p.8) 1 a Oxygen inside the jar is used up when the peanut burns. b The dry cobalt chloride paper changes from blue to pink. This shows that water is produced when food is burnt in air. c The indicator changes from red to yellow. Carbon dioxide is produced when food is burnt in air. d food + oxygen — high carbon dioxide — tempe — rature — + water + heat energy + light energy © Oxford University Press 2011 4 (1 m) (1 m) (1 m) (1 m) (2 m) Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 5 Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 6 Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 7 Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 8 Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 9 Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 10 Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 11 Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 12 Mastering Science Answers to Workbook 2A © Oxford University Press 2011 Unit 7 13 Mastering Science Answers to Workbook 2A Unit 7 (© Oxford University Press 2011 14 Mastering Science Answers to Workbook 2A Unit 7 (4 m) 2 a b A: Do not place the heater near flammable materials. B: Do not overload sockets. C: Keep flammable materials away from stoves. D: Do not leave your cooking unattended. © Oxford University Press 2011. 15 (1 m) (1 m) (1 m) (1 m) Mastering Science Answers to Workbook 2A Unit 7 7.3 How humans obtain energy I 1 2 3 True or false questions (p.10) F T T (1 m each) II Multiple-choice questions (p.10) 1 B 2 C (1 m each) III Question (p.11) a Food Mass of food (g) Nuts Bacon Bread Pizza b c d e Volume of water used (cm³) Rise in water temperature (°C) 20 20 20 20 15 28 9 22 0.5 0.7 0.9 1.1. Rise in water temperature per gram of food (°C) 30 (1 m) 40 (1 m) 10 (1 m) 20 (1 m) Bacon. (1 m) Bread. (1 m) Use the same mass of food. (1 m) Then, we need not calculate the rise in water temperature per gram of food. (1 m) There may be heat loss to the surroundings when the burning food is being moved to the boiling tube. (Or other reasonable answers.) (1 m) 7.4 How green plants obtain energy I True or false questions (p.12) © Oxford University Press 2011 (1 m each) 16 Mastering Science Answers to Workbook 2A 1 2 3 4 Unit 7 F T F F © Oxford University Press 2011 17 Mastering Science Answers to Workbook 2A Unit 7 II Fill in the blanks (p.12) 1 destarching 2 producers (2 m each) III 1 3 5 (1 m each) Multiple-choice questions (p.12) D A C 2 4 6 IV Questions (p.14) 1 © Oxford University Press 2011 C B D (6 m) 18 Mastering Science Answers to Workbook 2A 2 a b Unit 7 The need for light in photosynthesis. Starch. 1 2 3 4 (1 m) (1 m) Steps Boil the leaf in water. Purpose Destroy the of the cell membranes leaf cells. (1 m) Soak the leaf in hot alcohol. Wash the leaf in hot water. Add iodine solution to the leaf. Remove the chlorophyll from the leaf. (1 m) Wash away the alcohol and make the leaf soft. (1 m) Test for the presence of starch. (1 m) c Leaf X Leaf Y d © Oxford University Press 2011 19 Mastering Science Answers to Workbook 2A e f 3 a b Unit 7 The part of the leaf covered by the aluminium foil cannot carry out photosynthesis without light. (1 m) The iodine solution remains brown since no starch is produced. (1 m) Both leaf X and leaf Y turn blue-black. (1 m) This is because both leaves have carried out photosynthesis and produced starch before the investigation. (1 m) C. (1 m) C-→B-→D-→A (2 m) 7.5 Gaseous exchange in animals and plants I 1 2 3 4 5 6 True or false questions (p.17) T F F F T F (1 m each) II Fill in the blanks (p.17) (2 m each) 1 2 3 respiration, Energy gaseous exchange, air sacs III Multiple-choice questions (p.18) 1 D © Oxford University Press 2011 (1 m each) 20 Mastering Science Answers to Workbook 2A 2 3 4 5 6 7 Unit 7 A C B C B A IV Questions (p.20) 1 a contracts, outwards and upwards, contracts, increase, lower b It protects the lungs. c i There are many capillaries surrounding the air sacs/in the lungs. ii The air sacs in the lungs are filled with air. 2 a Air sac. b Carbon dioxide. c Oxygen. d For carrying out respiration in body cells. 3 The part The part it represents in balloon-bell jar model in human body Glass tube Trachea Y-piece Bronchi Rubber sheet Diaphragm (5 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) a (2 m) b © Oxford University Press 2011 21 Mastering Science Answers to Workbook 2A c d 4 Unit 7 Model A, pulled down, increases, lower, into Concentration of carbon dioxide Colour of hydrogencarbona te indicator > 0.03% (1 m) Yellow (1 m) (4 m) – 0.03% Red < 0.03% (1 m) Purple (1 m) a b i Tube A. ii Tube B. Tube A B (1 m) (1 m) Colour of hydrogencarbonate indicator At the beginning After two hours Red Purple (1 m) Red Yellow (1 m) c d i He should add a tube which is not wrapped and with no leaf. (1 m) This can make sure that the colour change of the indicator in tube A is caused by the leaf which takes in carbon dioxide under light. (1 m) ii He should add a tube which is wrapped but with no leaf. (1 m) This can make sure that the colour change of the indicator in tube B is © Oxford University Press 2011 22 Mastering Science Answers to Workbook 2A 5 a b c Unit 7 caused by the leaf which gives out carbon dioxide in the dark. (1 m) X: photosynthesis (1 m) Y: respiration (1 m) Large amounts of fossil fuels are burnt to meet the increasing energy needs. / Large areas of forest are cleared to obtain timber or land. (Or other reasonable answers.) (1 m) Global warming. (1 m) 7.6 Air pollution and smoking I 1 2 3 4 5 True or false questions (p.24) T F F T F © Oxford University Press 2011 (1 m each) 23 Mastering Science Answers to Workbook 2A Unit 7 II Fill in the blanks (p.24) 1 pollutants, air 2 Air Pollution Index, five, air quality monitoring 3 Nicotine 4 Passive (2 m each) III 1 2 3 4 (1 m each) Multiple-choice questions (p.25) B A C D IV Matching (p.26) a: iii b: iv, vi (5 m) c: ii, vii V Question (p.26) lung cancer, greater, greater d: i, vi e: v (3 m) B Unit Exercise I 1 2 3 4 5 6 7 8 True or false questions (p.27) F F F F T F T © Oxford University Press 2011 (1 m each) 24 Mastering Science Answers to Workbook 2A Unit 7 II Multiple-choice questions (p.27) 1 B 2 B 3 B 4 A 5 A 6 C 7 C 8 D 9 C 10 B 11 D (1 m each) III Questions (p.31) 1 a To absorb carbon dioxide in unbreathed air. (1 m) This can make sure any carbon dioxide tested is given out by the mouse only. (1 m) b It changes from red to yellow. (1 m) c Breathed air from the mouse contains carbon dioxide. (1 m) d It turns milky. (1 m) e The dry cobalt chloride paper changes from blue to pink. (1 m) f Water. (1 m) 2 a The oxygen inside the jar is used up when the candle burns. (1 m) b The candle will burn for a longer period of time (1 m) because more oxygen is available in a larger jar. (1 m) c The candle will burn for a shorter period of time (1 m) because a bigger wick consumes more oxygen during burning. (1 m) 3 a High temperature (1 m) and oxygen (1 m) b Water conducts electricity. We may get an electric shock. (1 m) 4 a The need for carbon dioxide in photosynthesis. (1 m) b To ensure there is no starch in the leaves before the experiment. / To destarch the plant. (1 m) c To ensure the carbon dioxide released by the soil micro-organisms during their respiration (1 m) will not be used by the plant to carry out photosynthesis. (1 m) d iii → ii → i → iv (1 m) © Oxford University Press 2011 25 Mastering Science Answers to Workbook 2A 5 e a b c Unit 7 Leaf A. Tree → giraffe → lion i Consumer. ii Producer. iii Consumer. Chemical energy stored in the leaves on the trees is transferred to the giraffes and then to the lion through feeding. 6 Tube A B C Colour of the hydrogencarbonate indicator At the beginning After two hours Red Purple Red Yellow Red Yellow (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) a b i Under light, the rate of photosynthesis of the water plant is higher than that of respiration. (1 m) There is a net uptake of carbon dioxide from the solution. (1 m) ii The pond snails carry out respiration and give out carbon dioxide. (1 m) iii In the dark, the water plant stops taking in carbon dioxide for photosynthesis. (1 m) Both the water plant and the snails carry out respiration and give out carbon dioxide. (1 m) IV Reading comprehension (p.36) a It reflects the amount of carbon dioxide produced by human activities. b This can reduce the amount of carbon dioxide released to the atmosphere, thus helping combat climate changes due to global warming. c i Switch off the appliances when not using them. (Or other reasonable answers.) ii Use public transport instead of driving private cars. (Or other reasonable answers.) iii Buy things that are necessary only. / Bring our own shopping bags. © Oxford University Press 2011 26 (1 m) (1 m) (1 m) (1 m) Mastering Science Answers to Workbook 2A Unit 7 (Any one; or other reasonable answers.) © Oxford University Press 2011 27 (1 m) Mastering Science Answers to Workbook 2A Unit 7 C Higher Order Thinking Questions (p.37) 1 a b c D. BD. The intercostal muscles relax. This allows the ribs to move downwards and inwards. At the same time, the diaphragm relaxes and becomes dome-shaped. Therefore, the volume of the chest cavity decreases. (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) d 2 a b c Nicotine. It causes addiction to cigarette smoking. Tar. It causes throat and lung cancers. When the lining of the bronchiole is irritated by tar, the lining becomes swollen. In addition, too much mucus is produced. These narrow the air passage, thus reducing the amount of air reaching and leaving the air sacs. © Oxford University Press 2011 28 (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) (1 m) Carbon, Dioxide, Workbook, Solutions, Photosynthesis, Tube, Respiration, Multiple, Blanks, Splint, Interactive INTERACTIVE SCIENCE 2A

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