

FREE CAMBRIDGE CHECKPOINT SCIENCE COURSEBOOK 7 PDF



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Cambridge Lower Secondary Checkpoint support material

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This Coursebook for Stage 7 gives a thorough introduction to the concepts, and offers a wealth of ideas for hands-on activities to make the subject matter come to life.

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This engaging course supports teaching of the Science framework both theoretically and practically, with full coverage of the Scientific Enquiry framework integrated throughout the series. Using an active-learning approach the workbook aims to build students' confidence, promote scientific enquiry and enable students to continue to access the Checkpoint Science curriculum.

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This Coursebook for Stage 7 gives a thorough introduction to the concepts, and Cambridge Checkpoint Science Coursebook 7 a wealth of ideas for hands-on activities to make the subject matter come to life. This Coursebook for Stage 9 gives a thorough introduction to the concepts, and offers a wealth of ideas for hands-on activities to make the subject matter come to life. Integrated review of topics from Stages 7 and 8 as well as full coverage of the Stage 9 content provides preparation for the Cambridge Checkpoint Science test and a solid foundation for progression into the Cambridge IGCSE Sciences.

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support to students to help reinforce key skills and understanding when studying science.

Checkpoint Science Skills Builder Workbook 8 provides tailored and scaffolded exercises that offer targeted support to students to help reinforce key skills and understanding when studying science.

Cambridge Checkpoint Science (Cambridge University Press)

This captivating Coursebook provides coverage of stage 7 of the revised Cambridge Secondary 1 curriculum framework. It is endorsed by Cambridge International Examinations for use with their programme.

The Coursebook is easy to navigate, with each learning topic covered by a double-page spread. We enable thousands of students to pass their Cambridge exams by providing comprehensive, high-quality, endorsed resources.

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Introduction Welcome to your Cambridge Secondary 1 Science course! This book covers the first year, Stage 7, Cambridge Checkpoint Science Coursebook 7 the Cambridge Secondary 1 Science curriculum. At the end of the year, your teacher may ask you to take a test called a Progression Test. This book will help you to learn how to be a good scientist, and to do well in the test.

The main areas of science The book is divided into three main sections, each one dealing with one of three main areas of science. These are: Biology — the study of living organisms. Chemistry — the study of the substances from which the Earth and the rest of the Universe are made. Physics — the study of the nature and properties of matter, energy and forces.

There are no sharp dividing lines between these three branches of science. You will find many overlaps between them. Learning to be a scientist During your course, you will learn a lot of facts and information.

You will also begin to learn to think like a scientist. Scientists collect information and do experiments to try to find out how things work. You will learn how to plan an experiment to try to find out the answer to a question. You will learn how to record your results, and how to use them to make a conclusion. When you see this symbol SEit means that the task will help you to develop your scientific enquiry skills.

But it is just as important to be able to use these facts and ideas. You will have to think hard to find the answer for yourself, using the science that Cambridge Checkpoint Science Coursebook 7 have learnt. Unit 1 Plants and humans as organisms 1. Unit 5 States of matter 5. Unit 2 Cells and organisms 2. Unit 3 Living things in their environment 3.

Unit 4 Variation and classification 4. Unit 6 Material properties 6. Unit 7 Material changes 7. Unit 8 The Earth 8. Physics Unit 9 Forces and motion 9. Unit Cambridge Checkpoint Science Coursebook 7 Energy Unit 11 The Earth and beyond Laboratory apparatus Units How to measure a length How to measure a temperature How to measure a volume of liquid How to construct Cambridge Checkpoint Science Coursebook 7 results table How to draw a line graph Glossary and index.

This map shows where plants cover the surface of the Earth. The map was made using information collected by a space satellite. Most plants are green. This is because they contain a green pigment colouring called chlorophyll. Chlorophyll absorbs takes in energy from sunlight. Plants use this energy to make food.

All the food that is eaten by animals was originally made by plants. Plants give out oxygen during the daytime. The oxygen in the air, which almost all living things need to stay alive, was all made by plants. Explain why some parts of the map are shown in dark green, and some parts are light green. Suggest why there are not many plants in these places.

Explain your answer. Explain why. Another word for a living thing Cambridge Checkpoint Science Coursebook 7 an organism. The parts of an organism are called organs. The diagram shows some of the organs in a flowering plant. Leaves are the food factories of the plant. They absorb energy from sunlight, and use it to make food.

You may be able to think of two reasons. Activity 1. Spread it out so that all of its parts are as flat as you can make them. Put a heavy weight on it to press the plant flat.

Label the different organs, and write down what each of them does. We have seen that the different parts of plants are called organs. Animals also have organs. For example, an eye is an organ. The heart is an organ, and so is Cambridge Checkpoint Science Coursebook 7 brain.

The organs in a human work together Cambridge Checkpoint Science Coursebook 7 teams. A group of Cambridge Checkpoint Science Coursebook 7 that work together is called an organ system.

The digestive system When you eat or drink, food goes into your digestive system. Cambridge Checkpoint Science Coursebook 7 is a long tube

that runs all the way through the body. Food usually takes between one and three days to travel from one end of the tube to the other. Most of the food is broken down into tiny particles inside the digestive system.

The breaking down is called digestion. The tiny particles move out of the digestive system, through its walls. They move into the blood. The blood carries them to every part of the body. Write down, in order, the organs that food passes through as it moves through the digestive system. Suggest what happens to the food that is not broken down.

The circulatory system The circulatory system transports substances all over the body. It is made up of tubes called blood vessels. These tubes contain blood. The blood is pumped around the circulatory system by the heart.

The nervous system helps different parts of the body to communicate with one another. Signals travel along nerves from the brain and spinal cord to all the other body organs. Sense organs are also part of the nervous system. For example, your eyes sense light. Signals travel from your eyes to your brain. The respiratory system The respiratory system is where oxygen enters your body and carbon dioxide leaves it. All of your cells need oxygen, so Cambridge Checkpoint Science Coursebook 7 they can respire.

This is Cambridge Checkpoint Science Coursebook 7 they get their energy. When cells respire, they make carbon dioxide, which is a waste product. Air moves down a series of tubes, until it is deep inside the Cambridge Checkpoint Science Coursebook 7. This is where oxygen moves into your blood. Carbon dioxide moves out of the blood and into the lungs. The air containing this carbon dioxide moves out of the lungs when you breathe out. Your skeleton supports your body and helps it to move.

It also protects some of the soft organs inside you. How are the bones in the arms and legs similar? Remember that there are the same number on both sides of the body. Name the bones that protect: brain, heart and lungs.