

For each lesson please follow the link to Oak National Academy and watch the video, complete any worksheets and exit quiz.

Year 8

Week 1 – SCIENCE – Materials and the Earth

A Place in Time

Monday

Lesson 1 – Structure of the Earth

In this lesson we will be looking at describing the structure of the Earth and explaining the cause of volcanoes and earthquakes

<https://classroom.thenational.academy/lessons/structure-of-the-earth-cgt3qd>

TASKS: -

1. Watch the video of the lesson
2. Download the worksheet and complete the tasks
3. What have you learnt? Complete the exit quiz

Understanding and accepting that everything exists in time and place, and acknowledging that there are differences between people, places and objects and that things can change over time.

Tuesday

Lesson 2 – Igneous rocks

In this lesson we will be looking at properties of igneous rocks, how they are formed and different classifications of these rocks

<https://classroom.thenational.academy/lessons/igneous-rocks-61k30e>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz

Wednesday

Lesson 3 – Sedimentary rocks

In this lesson we will be looking at the properties of sedimentary rocks, how sedimentary rocks are formed and comparing different types of weathering

<https://classroom.thenational.academy/lessons/sedimentary-rocks-64tp4d>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz

Thursday

Lesson 4 – Metamorphic rocks

In this lesson we will be looking at the properties and formation of metamorphic rock and will see how all of the rock types are interconnected in the rock cycle

<https://classroom.thenational.academy/lessons/metamorphic-rocks-6dj6cc>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz

Friday

Lesson 5 – Fossils

In this lesson you will learn about how different types of fossils are formed, how fossils can be evidence for evolution and understand what we can learn about organisms from their fossils

<https://classroom.thenational.academy/lessons/fossils-cnj3jc>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz

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Year 8

Week 2 – SCIENCE – Materials and the Earth

A Place in Time

Monday

Lesson 6 – Crude Oil

In this lesson you will learn about how crude oil is formed, what crude oil contains and be able to evaluate the advantages and disadvantages of using crude oil

<https://classroom.thenational.academy/lessons/crude-oil-cnj34d>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz

Tuesday

Lesson 7 – The Earth's atmosphere

In this lesson you will learn what the atmosphere of the Earth was like 4.5 billion years ago, what it is like today and why these changes happened.

<https://classroom.thenational.academy/lessons/the-earths-atmosphere-6nk34t>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz

Wednesday

Lesson 8 – The carbon cycle

In this lesson we will learn why carbon is such an important element to life on Earth and look at how carbon is cycled throughout the atmosphere and our environment

<https://classroom.thenational.academy/lessons/the-carbon-cycle-6gtkac>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz

Thursday

Lesson 9 – Greenhouse effect

In this lesson we will look at what is meant by 'the greenhouse effect' and explain the environmental significance of an accelerated greenhouse effect

<https://classroom.thenational.academy/lessons/the-greenhouse-effect-c4wpct>

Lesson 10 – Types of material

In this lesson we will describe and compare the properties of ceramics, polymers and composites and consider why each is suited to different uses

<https://classroom.thenational.academy/lessons/types-of-material-68tp2d>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz

Friday

Lesson 11 – Recycling resources

In this lesson we will compare and contrast different methods of preserving the Earth's natural resources and explain the importance of these methods

<https://classroom.thenational.academy/lessons/recycling-resources-6hypad>

Lesson 12 – Mining and quarrying

In this lesson we will describe the processes of mining and quarrying and evaluate their use

<https://classroom.thenational.academy/lessons/mining-and-quarrying-crup6d>

TASKS: -

1. Complete the introduction quiz
2. Watch the video of the lesson
3. Download the worksheet and complete the tasks
4. What have you learnt? Complete the exit quiz