

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

Year 9

Week 1 – SCIENCE – Energetics and rates

JOURNEYS

Journey; a passage through life, changing and developing over time.

Life is a journey filled with lessons, hardships, heartaches, joys, celebrations and special moments. Enjoy the ride, not just the destination. Cherish each time and don't wish it away.

Monday

Lesson 1 – What is rate?

This lesson introduces what a rate is and how to measure it.

<https://classroom.thenational.academy/lessons/what-is-a-rate-6crp4e>

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

Tuesday

Lesson 2 – Reaction rate graphs

This lesson explains how to read reaction rate curves and describes why reaction rate changes.

<https://classroom.thenational.academy/lessons/reaction-rate-graphs-71jk6c>

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 – Secondary data

This lesson explains what it means to work scientifically including means, anomalies, decimals and how to plot data.

<https://classroom.thenational.academy/lessons/secondary-data-crw6ac>

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 – The Effect of concentration

This lesson describes and explains the effect of concentration on rate of reaction.

<https://classroom.thenational.academy/lessons/the-effect-of-concentration-c4r68e>

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 – The Effect of surface area

This lesson describes and explains the effect of surface area on rate of reaction.

<https://classroom.thenational.academy/lessons/the-effect-of-surface-area-70upar>

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 9

Week 2 – SCIENCE – Energetics and rates

JOURNEYS

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Monday

Lesson 6 – Catalysts

This lesson introduces catalysts and how they affect rate of reaction. We will also describe the test for oxygen and its positive result.

<https://classroom.thenational.academy/lessons/catalysts-71hp6c>

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 – Exothermic and endothermic reactions

This lesson introduces exo- and endothermic reactions and how to identify them from temperature changes.

<https://classroom.thenational.academy/lessons/exothermic-and-endothermic-reactions-cgr38e>

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 – Combustion

This lesson introduces the 2 types of combustion and their products. We will also describe the test for carbon dioxide and its positive result.

<https://classroom.thenational.academy/lessons/combustion-chgk4e>

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 – Complete and incomplete combustion

This lesson explores the comparison of complete and incomplete combustion and evaluation of different fuels.

<https://classroom.thenational.academy/lessons/complete-and-incomplete-combustion-70ukgc>

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 10 – Investigation: Exo vs. Endo

This lesson explains how to plan an investigation looking into exothermic vs endothermic reactions.

<https://classroom.thenational.academy/lessons/investigation-exo-vs-endo-74rkgc>

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