

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

Year 7

Week 1 – SCIENCE – Cells

# COMMUNITY

Monday

## Lesson 1 – Microscopes

This lesson looks at how to label and use a microscope and calculate magnification

<https://classroom.thenational.academy/lessons/microscopes-74wkat>

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

Appreciation of the value of belonging to a community where people and animals can live in harmony, and being aware of the online community and the opportunities and challenges this presents.

Tuesday

## Lesson 2 Unicellular organisms

This lesson looks at the definition of unicellular organisms, exploring their structure and outlining the dangers and uses of different types of unicellular organisms.

<https://classroom.thenational.academy/lessons/unicellular-organisms-6cuk0r>

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 – Diffusion (Part 1)

This lesson defines diffusion, explores factors that affect the rate of diffusion and where diffusion happens in the body

<https://classroom.thenational.academy/lessons/diffusion-part-1-6hh3ac>

Tasks:

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

Thursday

## Lesson 4 – Diffusion (Part 2)

This lesson looks at identifying variables, investigating diffusion and applying working scientifically skills

<https://classroom.thenational.academy/lessons/diffusion-part-2-70w62d>

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 – Plant cells

This lesson looks at the parts that make up a plant cell, their function and how to see a plant cell under the microscope

<https://classroom.thenational.academy/lessons/plant-cells-6cwpcd>

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 7

Week 2 – SCIENCE – Cells

# COMMUNITY

Monday

## Lesson 6 – Plants as organisms

This lesson looks at plant tissues and organs and how a plant is adapted for photosynthesis

<https://classroom.thenational.academy/lessons/plants-as-organisms-74v34d>

### 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

Appreciation of the value of belonging to a community where people and animals can live in harmony, and being aware of the online community and the opportunities and challenges this presents.

Tuesday

## Lesson 7 – Animal cells

This lesson looks at the structure of an animal cell, how to prepare a human cheek cell slide to view under a microscope and calculating magnification.

<https://classroom.thenational.academy/lessons/animal-cells-chh62c>

### 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 – Comparing animal and plant cells

This lesson compares the structure of an animal and plant cell, explaining those differences in terms of function and using this to make a reasoned argument.

<https://classroom.thenational.academy/lessons/comparing-animal-and-plant-cells-6qv38r>

### 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 – Specialised cells

This lesson explores many types of specialised cells, looking at their function and adaptations.

<https://classroom.thenational.academy/lessons/specialised-cells-c8tpr>

### 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 – Animals as organisms

This lesson looks at how animals are multicellular organisms with organ systems which carry out the 7 life processes. This lesson will explore several human organ systems.

<https://classroom.thenational.academy/lessons/animals-as-organisms-6hgk8c>

### 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