

BBC LEARNING PRESENTS

## Science: Terrific Scientific Live Lesson

**Date:** Tuesday, 31<sup>st</sup> January, 2017

**Time:** 11:00am

**Duration:** 50 minutes (approx.)

**Location:** [bbc.co.uk/livelessons](http://bbc.co.uk/livelessons)

*(Note: if you can't watch the webcast live, you will be able to watch the recording on the Live Lessons website – this is uploaded a day or two after the live broadcast)*

### Curriculum links

#### Key Stage 2/2nd Level - Science

As part of the lesson, students will be encouraged to:

- Hone investigative skills and develop practical scientific techniques.
- Develop their knowledge of the human digestive system, including how nutrients and water are absorbed within the body.

### Setup

#### How much space and equipment is needed?

The lesson can be screened in a classroom with a large screen linked to a reliable broadband connection. Good audio equipment is not essential but will make the event more enjoyable.

Some of the activities involve writing so sitting at their tables in a classroom would be helpful or something to lean on to write.

#### How many students can participate?

It's completely up to you how many students you have participating in the session. We want to get as many students as possible engaged in this Live Lesson. Space might be a consideration if you have a very large group.

### How to prepare for the lesson

- At the start of the programme, pupils will be asked to think of their favourite food – this will then be used in a later activity when they are challenged to categorise types of food.
- Each pupil will need: Paper and a pencil, Activity 1 worksheet and Activity 2 worksheet.
- Complete Terrific Scientific's first investigation with your class – see details below.
- We'll be looking at nutrition, digestion, taste and how to think and work like a scientist. During the lesson we will be exploring the following activities.

## Taste Investigation

This Live Lesson is part of **Terrific Scientific** – a new Primary science campaign from the BBC. At the start of the lesson we will be looking at **Investigation 1: Taste**. The Terrific Scientific website has a collection of teaching resources to help you deliver the Taste investigation to your class:

<http://www.bbc.co.uk/guides/zg8nv9q>



Send in your results to [live.lessons@bbc.co.uk](mailto:live.lessons@bbc.co.uk) for the chance to be highlighted on the programme.

## Digestion and nutrition

In the second section of the Live Lesson, we'll be looking at the nutrition that the human body requires and how food is digested. Pupils will be given a list of different foods and tasked with classifying them on a table using **Activity 1: Food groups** available here on our website. Pupils can work in pairs for this activity and will be given 60 seconds to complete this task.

We will also be looking at the importance of water to humans and challenging pupils to choose the correct amount of water within the human body using **Activity Sheet 2: Water** available on our website.

The lesson will demonstrate the uptake of nutrients in the small intestine – an activity that can be replicated in the classroom using **Activity Sheet 3: Small intestine** available on our website. You may also want to use a tape measure to demonstrate the length of the small intestine, which is approximately 6.5m.

We have an additional classroom activity that demonstrates the full digestion process using everyday objects – this can be found on **Activity sheet 4: What happens when I eat?** that is available on this website.

## Energy

In the final part of the Live Lesson, we will be looking at why the human body requires a variety of foods, including a demonstration that shows the energy values of different foods.

## Contact us

You can email any questions or comments before and during the Live Lesson to [live.lessons@bbc.co.uk](mailto:live.lessons@bbc.co.uk), or by using the hashtag **#bbclivelessons**. We'll aim to answer as many of your questions as possible.

We'd also love to see examples of your students' work. If your classes have created any work or carried out any activities using the resources on our website, please do send it in to [live.lessons@bbc.co.uk](mailto:live.lessons@bbc.co.uk), and they could be showcased on the programme and on our website.

If you let us know if your school is planning to tune in on the day, your school name could also be featured on the programme. Thank you for your interest in the Terrific Scientific Live Lesson, and we hope you'll join us at 11am on 31<sup>st</sup> January.