



**Oakwood Academy**  
A Visual Arts, Technology & Sports College

# Science- 11B

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# Basic learning in Science

- ▶ The purpose of science teaching at Oakwood is to develop curiosity, enjoyment, skills and a growing understanding of science through an approach in which pupils raise questions and investigate the world in which they live.
- ▶ **The subject of science** seeks to engage and challenge learners at many levels, linking direct practical experience with scientific ideas. Experimentation and modelling are used to develop and evaluate explanations, encouraging critical and creative thought. Opportunities are planned for pupils to:
  - ▶ Enquire, explore and observe so that they can ask questions about themselves and their environment
  - ▶ Stimulate their curiosity in finding out why things happen in the way they do
  - ▶ Appreciate the way science will affect their future on a personal, national and global level.

# Learning Task 1 - Science- 11B

- ▶ Watch this [video](#) about the "eatwell plate".
- ▶ Many years ago sailors used to suffer from a disease called scurvy.
- ▶ Find out what symptoms a sailor with scurvy suffered from and what caused this disease.
- ▶ How did the navy solve the problem of scurvy on their ships.
- ▶ Design a poster that could have been used to inform the sailors about the need for a healthy diet.



# Learning Task 2 - Science- 11B

- ▶ Read through this [webpage](#) about a balanced diet (watch the video and do the activities).
- ▶ Draw a table that looks like this and fill it in:

|                         | Carbohydrate | Fat    | Protein | Fibre | Vitamins & Minerals              |
|-------------------------|--------------|--------|---------|-------|----------------------------------|
| Why do I need it?       |              | Cheese |         |       |                                  |
| Which foods contain it? |              |        |         |       | To keep our bodies working well. |
| Do I eat enough of it?  |              |        |         |       |                                  |

# Learning Task 3 - Science- 11B

- ▶ The government has launched a campaign to fight obesity.
- ▶ Watch this [video](#) about obesity and plans to try and beat it.
- ▶ Make a poster about obesity. In your poster give information about:
  1. What problems can be caused by obesity
  2. What causes obesity
  3. Ways we can try to prevent obesity.



# Prompts



- ▶ When you can, include your children in jobs you do around the house. It can be anything from cooking to washing the dishes. Talk to them about why you do things the way you do (why do you use washing up liquid? Why do you need the oven to be so hot?)
- ▶ When measuring things out for cooking ask them to help and see how accurately they can make readings.