



Oakwood Academy
A Visual Arts, Technology & Sports College

Science 8C

By Miss Gatto

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.

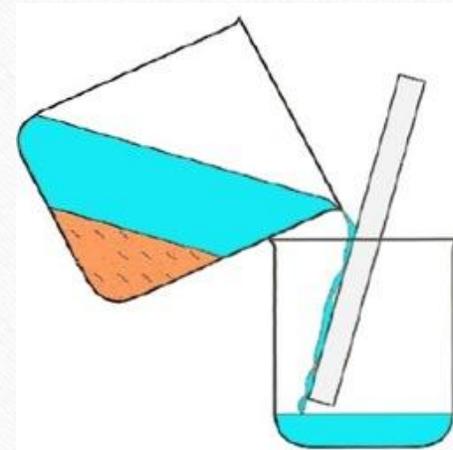
Learning Task 1 - Science- 8C

- Click [here](#) to watch a video introduction.
- Think about what you think the word pure means (look it up if you are not sure).
- Keep packaging and labels from food and decide whether you think the food is **pure** or **impure (not pure)**.
- You could make a display/poster with your labels to show which are pure and which are impure.



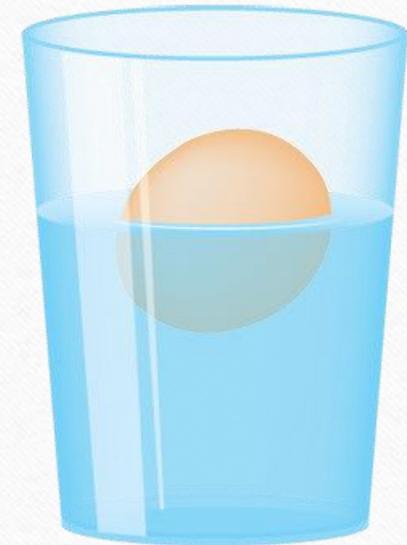
Learning Task 2 - Science- 8C

- Watch the video about separating mixtures by clicking [here](#).
- Draw pictures to help you explain how the different mixtures are separated.
- Make a list of different ways mixtures can be separated when cooking.



Learning Task 3 - Science- 8C

- The Dead Sea is a lake between the countries of Israel, Jordan and Palestine.
- At 418 metres (1,371 feet) below sea level, it is the lowest point on the surface of the Earth.
- The Dead sea is almost nine times as salty as the ocean. That makes it impossible for most life to exist in it.
- You are going to do an experiment with salt, water and an egg, to see how the salt affects the egg. Will it sink will, it float?
- Before you complete the experiment I would like you to write your prediction first. So what do you think will happen to the egg with no salt and when salt is added.
- Here is the link to the experiment with step by step instructions.
<https://www.sciencefun.org/kidszone/experiments/floating-egg/>
- Adding salt to the water increases the density of the solution because the salt increases the mass without changing the volume very much. When enough salt is added to the water, the saltwater solution's density becomes higher than the egg's, so the egg will then float!



More information

- 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.