



Oakwood Academy
A Visual Arts, Technology & Sports College

Science- 10A

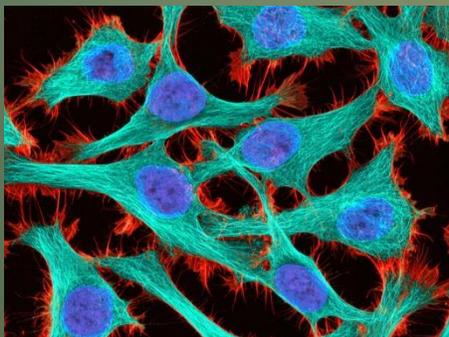
BY MR R JONES (HEAD OF DEPARTMENT)

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- 10A

- ▶ All living things are made out of cells. Learn more by clicking [here](#).
- ▶ Some cells have changed their shape, so that they can do their jobs more efficiently.
- ▶ Make a poster to show some of these specialized cells (at least 6) and label their special features.
- ▶ Cells you might want to find out about could be: sperm cells, nerve cells, epithelial cells, leaf guard cells, red blood cells, root hair cell.



Learning Task 2 - Science- 10A

- ▶ The cells in your body work together in 'teams'. To learn more click [here](#).
- ▶ Draw a table like the one below and fill in the organs you find in each organ system (either google it or watch the video again).

Organ System	Organs in that organ system.
Respiratory System	
Circulatory System	
Digestive System	
Reproductive System	

Learning Task 3 - Science- 10A

All plants and animals carry out the 7 life processes.

There is an easy way to remember these processes, using the name MRS GREN (sometimes people use MRS NERG).

Watch this [video](#) to remind you what each letter stands for.

For your task make a poster, giving a picture to remind yourself of what each letter stands for.

You may not know all of the words (like excretion), so you might need to look them up.



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.