



Oakwood Academy
A Visual Arts, Technology & Sports College

Science- 9B

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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- 9B

- ▶ When you are in a car, you can only travel up to a certain speed (the speed limit).
- ▶ Watch this [video](#) which talks about the different speed limits we get on different roads.
- ▶ Draw a table like this and explain what type of roads has the different speed limits.

| Speed Limit (mph = miles per hour) | Which type of road |
|------------------------------------|--|
| 20 | Roads in towns near schools or lots of houses. |
| 30 | |
| 40 | |
| 50 | |
| 60 | |
| 70 | |

Learning Task 2 - Science- 9B

- ▶ Despite speed limits, people still drive too fast.
- ▶ Watch this [video](#) to see how cars have become safer over the last 20 years.
- ▶ Now watch it again and make a list of all the safety features that you find in a modern car.
- ▶ Try to explain how each feature makes the car safer.



Learning Task 3 - Science- 9B

- Riding a bike on the road can be very dangerous. Watch this [video](#) to give you some ideas about road safety on a bike.
- Now choose one of these 2 tasks:
- **Either** Invent/design a new safety feature for a bike or a cyclist. Draw your design and explain how it would keep you safe.
- **Or** Draw a poster to tell cyclists how to keep safe (you could choose one thing, like wearing a helmet or give lots of suggestions as to how to keep safe.



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.