

Subject: Art, Design & Technology (Resistant Materials)

Department Staff – Mr T Murphy

Year 7 - Academic Year 2010-2011

In Art, Design and Technology, you have the opportunity to develop a range of skills and knowledge. You will follow a programme of study which includes Art, Textiles, Food and Resistant Materials.

As you come towards the end of the year you will have gained valuable skills in creating products from a range of materials.

Contents: what you will study

By the end of year 7 you will have:

- learned about the importance of safety when attending classes in Art, Design and Technology
- Learned how to design and make a product from a set task
- Learned how to present your design work.
- Learned about the properties and uses of materials you will use in resistant materials.
- Learned how to follow health and safety rules when working with tools and equipment
- learned how to use a range of tools and equipment.

In Year 7 the Resistant Materials project is to make a moving toy model. This project will last a maximum of 9 weeks.

National Curriculum levels at which you will work

You should be working between levels 3 to 5

Skills which you will develop this year:

- How to carry out research into existing products
- How to present your design work
- How to make a moving model
- How to make a prototype to test your design ideas
- How to mark out material before cutting
- How to make a quality product
- How to evaluate your completed product

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Assessment: how you will be tested this year

- You will be continuously assessed throughout your design and make stages.
- You will be also assessed via the series of home that will be given to you

In order to gain good marks:

- Your folder must be neat and well organised
- You must present your written work clearly
- Your finished product should meet your specification
- The quality of the product that you made must be good
- Gain further understanding of the working characteristics of the materials being used in your subject areas.
- Show that you have used tools and equipment correctly and safely
- Produce high quality practical work

Depending on how good your work is you will be awarded a grade/level as follows;

Grade	A	B	C	D	E
Level	7	6	5	4	3

Equipment which you will need for this year's work

The equipment you need for this term are:

- Standard School equipment
- Tools
- Workshop equipment

Key words which you will need to learn for this year's work

Here are some of the subject key words (*Terminology*), You will be learning more, It is important that you make a note of them. Your teacher will be writing more on the board as the lesson progresses

Product	The thing you have to make, e.g. a toy, a meal ,a garment
Research	Finding out information about your product using a range of sources
Design Brief	A short statement of task or a statement of what you have decided to make
Specification	Bullet point statement of what you want your product to have or the targets that you set for your product
Evaluation	Judging the product that you have made in other to improve it and also to check if it has met your written specification
MDF	Medium Density Fibre-board
Coniferous	Soft woods that come from trees which have needle like leaves
Deciduous	Hard woods that come from trees which have broad leaves
Thermosetting	Plastics that cannot be recycled or reused
Thermoplastic	Plastics that can be recycled or reused
Acrylic	An example of a thermoplastic
Ferrous	Metals that have iron in them and can be magnetised
Non-Ferrous	Metals that have no iron in them and cannot be magnetised
Environment	Surrounding made by nature or people
Structure	The arrangement of different parts of materials that make up a construction.