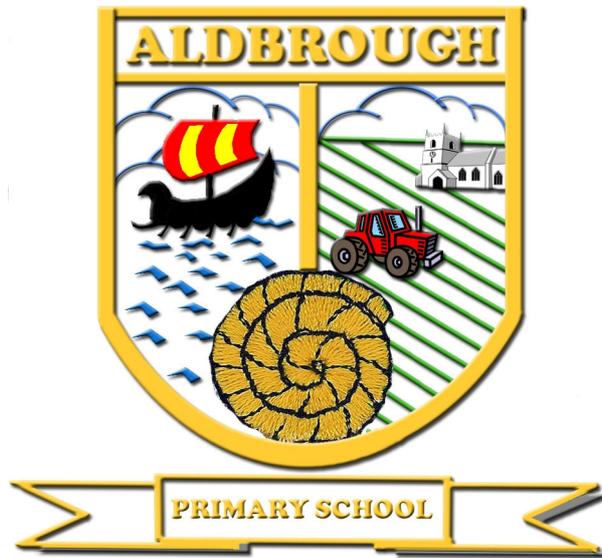


ALDBROUGH PRIMARY SCHOOL



DESIGN & TECHNOLOGY POLICY

DOC-APS-POL-0012

Revision	Amendments	Date	Gov Ratified	
1		26/2/15		

Aldbrough Primary School
Design and Technology Policy

INTRODUCTION

Design and Technology allows children to develop their creative skills through planning, designing and making. Children can gain great satisfaction from using physical resources to create a product that meets a perceived need

AIMS

1. Gain a knowledge and understanding of materials, components, controls and structures.
2. Use focused practical tasks to develop skills, techniques and knowledge particularly those related to tools and materials.
3. Have opportunity to investigate, disassemble and evaluate a range of simple products, which are found in everyday life.
4. Develop their confidence when formulating their original ideas through a range of activities,
5. Experience a sense of achievement, having worked through the design processes to the finished article.
6. Be aware of health and safety and plan for it.
7. Know where and how to find relevant technological information, through effective use of reference material in the school library and through the Internet.
8. Be given equal opportunity to develop the relevant skills, regardless of ability, gender, race or cultural background.
9. Be challenged to achieve their very best.

TEACHING AND LEARNING

1. Pupils will be encouraged to generate ideas through:
 - a) Group discussions either led by the teacher or between pupils;
 - b) Assembling and rearranging materials and components (i.e. construction kits, junk materials);
 - c) Forming designs on paper (drawings).
2. Pupils will gain a knowledge and understanding of a wide range of materials including:
 - a) construction kits;
 - b) textiles;
 - c) food;
 - d) wood, metal, plastic;
 - e) junk materials (reclaimed materials);
 - f) Mouldable materials.
3. Pupils will be given the opportunity to work within groups and on an individual basis to produce a design.
4. Pupils will make freehand drawings and models to communicate their ideas.
5. Pupils will be given the opportunity to evaluate their designs and identify strengths and weaknesses in a positive way.
6. Pupils will be given the opportunity to:
 - a) use simple mechanisms;
 - b) use wheels and axles;
 - c) make structures to withstand a load;
 - d) disassemble simple products and investigate them so that they may understand how they work.
7. Pupils may gain a knowledge and understanding of health and safety aspects:
 - a) when working with materials and tools;
 - b) when considering the risk to themselves and others during the activity;

- c) when following instructions given by the teacher;
- d) as consumers, knowing that some products are (or can become) dangerous.

PLANNING

Planning is the responsibility of the class teacher, who may call on the Design and Technology Subject Leader for assistance.

Planning is used to set clear achievable goals, to ensure work is matched to pupils' abilities and to ensure progression, continuity and subject coverage throughout the school. Projects need to be carefully planned to bring out the full potential of the pupils. Aldbrough School follows a topic approach to Design and Technology which incorporates the requirements of The National Curriculum.

In planning, the delivery of the curriculum should be differentiated to challenge pupils of all abilities.

The Design and Make Assignments specified in the Scheme of Work include the following:

'Investigate, Disassemble and Evaluate' Activities (IDEAS):

These tasks should be set by the teacher with the pupils working in pairs/small groups and then reporting their findings.

Focused Practical Tasks:

These tasks are aimed at individual pupils to help them develop specific skills. They should be designed so that the pupil is able to achieve and develop in confidence. (These tasks should be teacher directed).

Design and Make Assignments (DMAS):

These tasks involve compiling all knowledge and investigations done previously to design and make an object of their own.

The class teacher is responsible for the teaching of Design and Technology and should follow the School's Long Term Plan.

RESOURCES

The National Curriculum documents a wide range of materials and equipment to be used within the subject. The safe storage of the material and equipment, together with ease of access for the class teacher is important. The Subject Leader will be responsible for ordering and management of the equipment and materials. Some resources may be retained in the classroom to support other subject areas. Some resources will be held centrally.

ASSESSMENT

Pupil's work will be regularly assessed by the class teacher. This enables the teacher to show that the child had progressed throughout the academic year.

Evidence of work and achievement will be kept by the Design Coordinator. This will include photographs, students' notes, designs and pictures of the finished product with an evaluation. Pupil progress is tracked on the school's assessment grid for the foundation subjects.

HEALTH AND SAFETY

The teacher will be responsible for the Health and Safety of themselves, Teaching Assistants, visitors and pupils within their class.

Pupils should be encouraged to:

1. Collect and return tools and equipment safely.
2. Follow clear instructions.
3. Only move around the classroom when necessary.
4. Wear safety equipment whenever necessary.

To ensure the safe use of tools and equipment, it is important that teachers are confident when handling the tools and equipment so that they can demonstrate correctly.

. All pupils should be clear on the intended use of the tools. Pupils should have safe, controlled access to tools and equipment when carrying out all activities.

When preparing food, the preparation should reflect the very best of domestic practices.

Risk assessments should be carried out before use of certain substances which may be hazardous to health. Local Authority guidelines will be followed (COSHH regulations).

All portable equipment is tested annually (PAT Tests) as detailed in the Health and Safety Policy.

DISPLAY

Pupil's work is regularly displayed in the classrooms and around school so that they become more aware of the Design Technology process. This will reinforce the need for the product to be aesthetically pleasing and in some instances it will give the project a purpose.

EQUAL OPPORTUNITIES AND SPECIAL NEEDS

Teachers ensure that children have access to the range of Design & Technology activities and use opportunities within Design & Technology to challenge stereotypes. Children are encouraged and supported to develop their Design & Technology capability using a range of materials. Teachers differentiate activities within Design & Technology to ensure that the specific needs of individual children are best met.

Reviewed February 2015