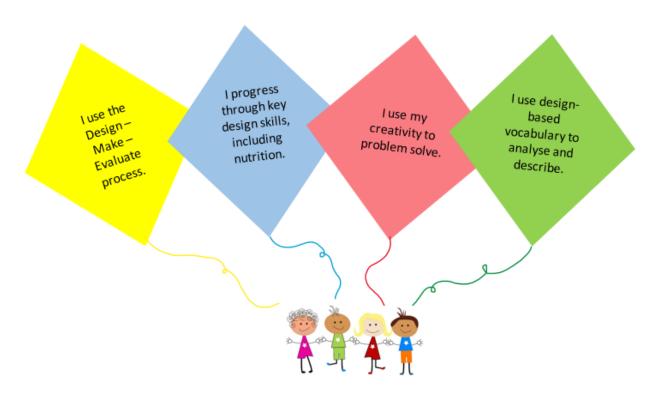


How to teach Design & Technology at Bowling Green Academy

Design and Technology



Design & Technology Unit Focus Overview

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	Autumn I	Autumn 2	Spring I	Spring 2	Summer I	Summer 2
Year I	Construction: Post a Pringle/egg		Food: Fruit salad		Construction: Building Structures	
Year 2	Food: Cupcakes		Mechanics, Electrics and Computing: Design a car		Textiles: Make a book bag	
Year 3	Textiles: Class banner (patchwork quilt)		Spr 2 - Construction, Mechanisms and materials Create a working catapult			
Year 4	Food: Yorkshire puddings		Electronics and construction: Lighthouse		Computing and materials: Robot	
Year 5				it crumble	Electronics ar <u>Emley</u> M	on: Bug hotel nd construction: loor mast*
Year 6	Textiles: Bay	eux tapestry	Construction and n	nechanics: CAM toy	Computing: 3D c	ligital construction

What does Design and Technology look like in EYFS?

Design and Technology in Reception is building the foundation skills needed for Design and Technology.

Our Design and Technology scheme for the EYFS is centred around play-based activities that focus on building children's fine motor skills, curiosity and creativity and problem solving.

Design and Technology in the Early Years can mean:

- Junk modelling
- Fine motor skills (using scissors)
- Folding, joining, connecting, sticking, scrunching etc. paper.
- Puppets for role play
- Baking,
- playdoh modelling, rolling, chopping,

Allowing children the opportunity to explore Design and Technology in this carefree and often child-led way, means that not only will they develop a familiarity with equipment and vocabulary but they will have a strong start in Key Stage 1 Design and Technology and all that it demands.

Lesson sequence

Design and Technology lessons at Bowling green consist of learning and recapping new vocabulary, followed by new learning material/skill and a series of activities to implement new learning/skill.

Lesson Example

Flashback and	Introducing new skill	Activities related to	Reflection.
Vocabulary		new skill	
Flashback including	Skill introduction,	Children implement	Children reflect on
retrieval questions	Where, Why, When –	learning through a	learning and
such as: Last lesson,	discussing future Job	series of different	vocabulary taught in
Last week, Last unit,	opportunities that	challenges/activities.	lesson.
Last Year as well as	could arise from		
Key knowledge.	practising or using		
Recap of previously	new skill.		
learnt vocabulary. And			
introducing new	Children taught new		
vocabulary.	learning material with		
	modelling.		

Unit example

skills and vocabulary.	purpose' phase.	Reflection on learning and new skills. Evaluating item based on success criteria and purpose.
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NB. Teachers should always check the lesson plans thoroughly to familiarise themselves with the lesson content and activities.

Assessment

BGA - DT Assessment

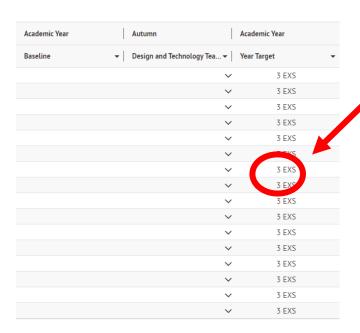
In DT, through a variety of creative, skill-based tasks, children are able to design, make and evaluate their projects against a specific purpose. Core knowledge and vocabulary is revisited at the beginning of lessons in 'Flashbacks' or other retrieval practices. Units of work are thoughtfully planned out through the use of bespoke knowledge organisers.

- Teacher observations
- Self-assessment and peer assessment against agreed criteria, e.g. hinges or ingredients
 used
- Questioning, such as Hinge questions e.g. What does the pulley system help with? (Year 4).
- Retrieval practice through Flashbacks, quizzes etc.

At the end of each term, Teachers should input data onto Arbor and assess each child based on WTS or EXP standard.



Please see the example below to help assessment.



Using the drop-down menu on Arbor, teachers can choose whether a child has met objectives and is EXP or whether they are WTS.

How are SEND and the lowest 20% supported?

What knowledge must learners acquire?

- Develop creativity and imagination.
- Key vocabulary.
- build and apply a repertoire of knowledge, understanding and skills
- critique, evaluate and test their ideas and products and the work of others

Strategies to support learners include

- Use of high quality wagolls
- modelling
- Use of reward system- house and dojo points
- Adult and peer support
- Repetition of key learning points.
- Clear language
- Key word/vocab map prompt
- Visual aids on working walls
- Multisensory approach
- Break tasks down into chunks
- Peer group work
- Allow sufficient time for pupils to complete given task

Where is vocabulary and language explicitly taught?

- Within lessons key vocabulary highlighted and displayed. Referred to regularly and recapped to check understanding.
- Reinforced in writing through from their planning process to evaluation of the designed piece.

What does progression look like?

- Progression in Design and Technology involves developing skills and knowledge through:
- Using an increasing range of programs and systems
- Developing more complex coding and programming skills
- Become more creative in their application of skills
- Increasing independence for all the above
- For pupils with SEND, progression may be more supported.
 Progression will look different depending upon their individual learning and development needs.
 Progression will be measured against individual starting points rather against the year group expectations as differentiation may mean that the pupils are working on the Design and Technology curriculum below their current year

Strategies to support learners (examples*)

- Praise and encouragement
- Repetition of key learning points.
- Checklist of learning steps.
- Practical demonstration
- Visual aid
- Modelling of spoken and written answers.
- concrete examples, linked to previous learning/familiar contexts.
- checking understanding careful questioning, asking the student to explain to a classmate, applying learning to a different context.
- Use of writing frames to help structure any written work

Evidencing work

When evidencing Design and Technology, teachers and children should be using SeeSaw to upload images, videos, voice recordings to explain throughout the designing, creating and evaluating stages of Design and Technology.