



Wanstead High School

Education with Character

Graphics Curriculum Content 2024 - 25

Key Stage 3 - Year 7, 8 & 9
Key Stage 4 - Year 10 & 11



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Graphics Year 7

Pupils receive 3 hours of lessons of Graphics each fortnight for 10 weeks.

Graphics teaches useful life skills. Pupils learn how to model a range of V-folds, parallelogram and a diagonal and square box paper mechanism. In addition, pupils learn Typography in terms of how to analyse the parts of letters and the difference between serif and San serif fonts. This allows the pupils freedom of expression and the ability to create original and imaginative outcomes.

Graphics inspire pupils to develop Education with Character by enabling pupils to develop a wide range of transferable skills for further education, work and life. Pupils' imagination flourishes and they are encouraged to experiment with processes.

Graphics encourages pupils to explore, enjoy and develop their creative thinking, design, problem solving and critical analysis skills.

What is taught	When is it taught	Reading list and Literacy focus	Where the curriculum is ambitious
Work of others: Robert Sabuda Paper engineering modelling <ul style="list-style-type: none"> • Typography 	10-week block of lessons	Learning and using Key subject vocabulary	Pupils complete a condensed non-examination assessment (NEA) style project.
<ul style="list-style-type: none"> • Safe operation of the creasing machine and scoring boards 		Evaluation writing	
<ul style="list-style-type: none"> • Pupils work with paper mechanism 			

How are pupils informally and formally assessed?	Pupils receive regular and timely formative feedback. We make use of a range of peer, self and teacher assessment in order to allow pupils to reflect on their design, practical and evaluation work. Pupils will have mid-term assessment at three points in the school year, in line with Challenge Weeks.
Developing Independent and Home Learning Skills	Google Classroom will be updated each rotation with all the resources used in class. An Independent Learning Assignment (ILA) will be set for pupils each term.
Useful e-Learning Resources (e.g., web links)	https://www.youtube.com/watch?v=vpJmTSAIHeQ https://technologystudent.com/designpro/popup1.htm https://technologystudent.com/despro_flsh/instand2.html
Equipment for lessons	Blue or black pen, HB pencil, green pen, ruler, rubber, sharpener and colouring pencils.
Enrichment activities	Extracurricular clubs and competitions throughout the year.
Careers curriculum	Careers talks
Curriculum Team Leader and email contact	Mr A Yiacoumi a.yiacoumi@Wansteadhigh.co.uk

Graphics Year 8

Pupils receive 3 hours of lessons of Graphics each fortnight for 10 weeks.

Graphics teaching useful life skills.

Pupils learn how to develop designs freehand sketching skills as well as the use of CAD software program Google SketchUp. In addition, pupils learn to use the modelling material Styrofoam to communicate their ideas.

This allows the pupils freedom of expression and the ability to create original and imaginative outcomes.

Graphics inspire pupils to develop Education with Character by enabling pupils to develop a wide range of transferable skills for further education, work and life. Pupils' imagination flourishes and they are encouraged to experiment with processes.

Graphics encourages pupils to explore, enjoy and develop their creative thinking, design, problem solving and critical analysis skills.

What is taught	When is it taught (Terms or Half Terms)	Reading list and Literacy focus	Where the curriculum is ambitious
Use of Google Sketchup tools	10-week block of lessons	Learning and using Key subject vocabulary	Pupils complete a condensed NEA style project
Safe operation of the hot wire cutter		Evaluation writing	
Pupils work with Styrofoam			

How are pupils informally and formally assessed?	Pupils receive regular and timely formative feedback. We make use of a range of peer, self and teacher assessment in order to allow pupils to reflect on their design, practical and evaluation work. Pupils will have mid-term assessment at three points in the school year, in line with Challenge Weeks.		
Developing Independent and Home Learning Skills	Google Classroom will be updated each rotation with all the resources used in class. An Independent Learning Assignment (ILA) will be set for pupils each term.		
Useful e-Learning Resources (e.g., web links)	https://www.youtube.com/watch?v=qgt2s9RzvKM		
Equipment for lessons	Blue or black pen, HB pencil, green pen, ruler, rubber, sharpener and colouring pencils.		
Enrichment activities	Extracurricular clubs and competitions throughout the year.		
Careers curriculum	Careers talks.		
Curriculum Team Leader and email contact	Mr A Yiacoumi a.yiacoumi@wansteadhigh.co.uk Head of Department Art, Design and Technology		

Graphics Year 9

Pupils receive 3 hours of lessons of Graphics each fortnight for 10 weeks.

Graphics teaching useful life skills.

Pupils learn how to develop the use of CAD software program Photoshop. In addition, pupils learn to use the modelling material corrugated card to communicate their ideas.

This allows the pupils freedom of expression and the ability to create original and imaginative outcomes.

Graphics inspire pupils to develop Education with Character by enabling pupils to develop a wide range of transferable skills for further education, work and life. Pupils' imagination flourishes and they are encouraged to experiment with processes.

Graphics encourages pupils to explore, enjoy and develop their creative thinking, design, problem solving and critical analysis skills.

What is taught	When is it taught (Terms or Half Terms)	Reading list and Literacy focus	Where the curriculum is ambitious
Use of Photoshop tools	10-week block of lessons	Learning and using Key subject vocabulary	Pupils complete a condensed NEA style project
How to develop ideas using Photoshop		Evaluation writing	
Pupils work with corrugated card			
How are pupils informally and formally assessed?	Pupils receive regular and timely formative feedback. We make use of a range of peer, self and teacher assessment in order to allow pupils to reflect on their design, practical and evaluation work. Pupils will have mid-term assessment at three points in the school year, in line with Challenge Weeks.		
Developing Independent and Home Learning Skills	Google Classroom will be updated each rotation with all the resources used in class. An Independent Learning Assignment will be set for pupils each term.		
Useful e-Learning Resources (e.g., web links)	https://www.youtube.com/watch?v=dXxfpFhpQ7E		
Equipment for lessons	Blue or black pen, HB pencil, green pen, ruler, rubber, sharpener and colouring pencils.		
Enrichment activities	Extracurricular clubs and competitions throughout the year.		
Careers curriculum	Careers talks		
Curriculum Team Leader and email contact	Mr A Yiacoumi a.yiacoumi@wansteadhigh.co.uk Head of Department Art, Design and Technology		

AQA Graphics - Year 10

Pupils receive 6 lessons of Design Technology each fortnight.

The importance of Design and Technology in the curriculum:

The study of design and technology seeks to prepare pupils to participate confidently and successfully in an increasingly technological world; and be aware of, and learn from, wider influences on design and technology, including historical, social, cultural, environmental and economic factors. It helps Pupils to understand and apply iterative design processes through which they explore, create and evaluate a range of outcomes. Pupils use their creativity and imagination to design and make prototypes (together with evidence of modelling to develop and prove product concept and function) that solve real and relevant problems, considering their own and others' needs, wants and values. Pupils think about society in a new and critical light and discuss contemporary and worldwide topics. Pupils build on skills and knowledge developed in the sciences, maths, and Physical education.

Design Technology inspires pupils to develop Education with Character: As pupils learn to take design risks, helping them to become resourceful, innovative and enterprising citizens. Design and technology is an excellent subject for comparing both historic and present-day designs, in order to understand how designs impact on daily life and the wider world. In addition, pupils learn to understand that high-quality design and technology is important to the creativity, culture, sustainability, wealth and well-being of our nation and the global community.

Skills developed in Design and Technology are: transferable skills including how to investigate facts and make judgements, how to explore and take design risks in order to stretch the development of design proposals, avoiding clichéd or stereotypical responses.

What is taught	When is it taught (Terms or Half Terms)	Reading list and Literacy focus	Where the curriculum is ambitious
<p>Topic: Designing principles:</p> <ul style="list-style-type: none"> • Communication of design ideas <p>Topic: Core technical Principles Knowledge:</p> <ul style="list-style-type: none"> • Materials and their working properties: • timbers, metals, polymers, papers and boards, textiles. • Energy, materials, systems and devices: • Energy generation, Smart materials, Systems approach to designing, electronic systems processing, and mechanical devices. <p>Topic: Specialist Unit:</p> <ul style="list-style-type: none"> • Common specialist technical principles: • The 6 Rs • Section 5D: Plastics • Sources, origins and properties • Commercial manufacturing 	<p>Term 1</p>	<p>Pupils learn a range of Key subject vocabulary when studying each topic. Literacy is promoted in the classroom with the explicit teaching of key subject vocabulary.</p> <p>Oracy is promoted, pupils produce presentations on each designer and present their findings to the rest of the class. Reading is promoted in lessons.</p> <p>https://www.youtube.com/watch?v=U337crT3OC0</p> <p>https://www.youtube.com/watch?v=0-j-cThf1U</p> <p>https://www.youtube.com/watch?v=wTiw2CktpW0</p> <p>https://www.youtube.com/watch?v=UCbr-oAU2eQ</p> <p>https://www.youtube.com/watch?v=ZosCAkCJoic</p> <p>https://www.youtube.com/watch?v=nrArPiM50oc</p> <p>https://www.youtube.com/watch?v=uK0gtWhREM&t=6s</p> <p>https://www.youtube.com/watch?v=J1tpD1NRJml</p> <p>Access to all key subject specific vocabulary can be found in the below link:</p>	<p>Cross-Curricular links integrate Design and Technology with other subjects such as Mathematics and Biology to enable pupils to think more creatively.</p>

		https://www.aqa.org.uk/resources/design-and-technology/gcse/design-and-technology/teach/subject-specific-vocabulary	
<p>Topic: Specialist technical principles:</p> <ul style="list-style-type: none"> • Forces and stresses • scales of production • Improving functionality <p>Topic: Making principles:</p> <ul style="list-style-type: none"> • Selection of materials and components • Tolerances and allowance • material management and marking out • Specialist tools, equipment, techniques and finishes • Surface treatments and finishes <p>Topic: Specialist Unit:</p> <p>Section 5A: Paper</p> <ul style="list-style-type: none"> • Sources, origins and properties • Commercial manufacturing 	<p>Term 2</p>	<p>Pupils learn a range of key subject vocabulary when studying each topic. Literacy is promoted in the classroom with the explicit teaching of key subject vocabulary.</p> <p>Oracy is promoted, pupils produce presentations on each designer and present their findings to the rest of the class. Reading is promoted in lessons.</p> <p>Access to all key command words can be found in the below link:</p> <p>https://www.aqa.org.uk/resources/design-and-technology/teach/command-words</p>	<p>Introduce pupils to emerging technologies and enhance their technical skills.</p>
<p>Topic: Core technical principles knowledge:</p> <ul style="list-style-type: none"> • New and emerging technologies • Industry and enterprise, sustainability and the environment, people, culture and society, production techniques and systems, informing design decisions, ecological and social footprints. <p>Topic: Designing principles:</p> <ul style="list-style-type: none"> • Investigation, primary and secondary data, the work of other designers, the work of other companies, and design strategies. • Energy, materials, systems and devices: • energy storage, modern materials, composite materials and technical textiles, <p>Start NEA coursework- Beginning of June 2025</p>	<p>Term 3</p>	<p>Access to list showing the mathematical and science skills that are used in Design and Technology can be found in the below link:</p> <p>https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552/appendix-1-links-to-maths-and-science</p>	<p>Extend their knowledge further than the specification to understanding that high-quality design and technology is important to the creativity, culture, sustainability, wealth and well-being of the nation and the global community.</p>
<p>How are pupils informally and formally assessed?</p>	<p>There is one exam paper for this qualification, 120-minutes in length. Throughout the course pupils will sit practice exam questions at the end of each unit. The Year 11 mock exam is a full 120-minute past paper.</p> <p>There are also a range of different exam style questions pupils complete in class in timed conditions.</p>		
<p>Developing Independent and Home Learning Skills</p>	<p>Lessons are posted onto the Google classroom, along with exam style questions.</p>		

Useful e-Learning Resources (e.g., web links)	<p>AQA Design and Technology GCSE website: https://filestore.aqa.org.uk/resources/design-and-technology/specifications/AQA-8552-SP-2017.PDF</p> <p>Revision:</p> <ul style="list-style-type: none"> GCSE Design & Technology Revision- 24 videos https://www.youtube.com/watch?v=BfLcUG2vg9I&list=PLFrGcy2dv8TuxsqQJezvJjEla9GxSLK6K BBC Bitesize: GCSE AQA Design and Technology https://www.bbc.co.uk/bitesize/examspecs/zby2bdm Seneca website for Design & Technology: AQA GCSE: https://app.senecalearning.com/dashboard/class/o00djwikcn/assignments/assignment/8498465f-6b2f-42c8-9970-ddb723a98a80
Equipment for lessons	<p>Black pen, green pen, pencil, rubber, ruler, highlighter, calculator, glue stick.</p>
Enrichment activities	<p>Intervention sessions and visit to the Design Museum.</p>
Careers curriculum	<p>Studying Design and Technology will help pupils to develop a wide variety of employability skills as well as developing an understanding of how designs impact on daily life and the wider world around us. Within the introductory lessons we discuss careers and where the study of Design and Technology can lead to. Next steps are a focus on the NEA coursework that starts in Year 10 and ends in Year 11.</p>
Head of Department and email contact	<p>Mr A Yiacoumi a.yiacoumi@wansteadhigh.co.uk Head of Department Art, Design and Technology</p>

AQA Graphics - Year 11

Pupils receive 6 lessons of Design Technology each fortnight.

The importance of Design and Technology in the curriculum:

The study of design and technology seeks to prepare pupils to participate confidently and successfully in an increasingly technological world; and be aware of, and learn from, wider influences on design and technology, including historical, social, cultural, environmental and economic factors. It helps Pupils to understand and apply iterative design processes through which they explore, create and evaluate a range of outcomes. Pupils use their creativity and imagination to design and make prototypes (together with evidence of modelling to develop and prove product concept and function) that solve real and relevant problems, considering their own and others' needs, wants and values. Pupils think about society in a new and critical light and discuss contemporary and worldwide topics. Pupils build on skills and knowledge developed in the sciences, maths, and Physical education.

Design Technology inspires pupils to develop Education with Character: As pupils learn to take design risks, helping them to become resourceful, innovative and enterprising citizens. Design and technology is an excellent subject for comparing both historic and present-day designs, in order to understand how designs impact on daily life and the wider world. In addition, pupils learn to understand that high-quality design and technology is important to the creativity, culture, sustainability, wealth and well-being of our nation and the global community.

Skills developed in Design and Technology are: transferable skills including how to investigate facts and make judgements, how to explore and take design risks in order to stretch the development of design proposals, avoiding clichéd or stereotypical responses.

What is taught	When is it taught (Terms or Half Terms)	Reading list and Literacy focus	Where the curriculum is ambitious
<p>Knowledge: Exam practice and revision of topics covered in Year 10</p> <p>Topic: NEA</p> <p>Skills: Producing a design brief & specification (10 marks)</p> <p>Generating design ideas (20 marks)</p>	Term 1	<p>Pupils learn a range of Key subject vocabulary when studying each topic. Literacy is promoted in the classroom with the explicit teaching of key subject vocabulary.</p> <p>Oracy is promoted, pupils produce presentations on each designer and present their findings to the rest of the class. Reading is promoted in lessons.</p> <p>Access to all key subject specific vocabulary can be found in the below link:</p> <p>https://www.aqa.org.uk/resources/design-and-technology/gcse/design-and-technology/teach/subject-specific-vocabulary</p>	<p>Engaging pupils in real-world design challenges or creating projects that have an impact on the community.</p> <p>Think outside the box and provide opportunities for open ended projects.</p>
<p>Knowledge: Exam practice and revision of topics covered in Year 10</p> <p>Topic: NEA</p> <p>Developing design ideas (20 marks)</p> <p>Realising the product (20 marks)</p> <p>Analysing & evaluating (20 marks)</p>	Term 2	<p>Pupils learn a range of key subject vocabulary when studying each topic. Literacy is promoted in the classroom with the explicit teaching of key subject vocabulary.</p> <p>Oracy is promoted, pupils produce presentations on each designer and present their findings to the rest of the class. Reading is promoted in lessons.</p> <p>Access to all key command words can be found in the below link:</p>	<p>Introduce pupils to emerging technologies and enhance their technical skills.</p> <p>Extend their knowledge further than the specification to understanding that high-quality design and technology is important to the creativity, culture, sustainability, wealth and</p>

		https://www.aqa.org.uk/resources/design-and-technology/teach/command-words	well-being of the nation and the global community.
Knowledge: Exam practice and revision of topics covered in Year 10	Term 3	Access to list showing the mathematical and science skills that are used in Design and Technology can be found in the below link: https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552/appendix-1-links-to-maths-and-science	Cross-Curricular links integrate Design and Technology with other subjects such as Mathematics and Biology to enable pupils to think more creatively.
How are pupils informally and formally assessed?	There is one exam paper for this qualification, 120-minutes in length. Throughout the course pupils will sit practice exam questions at the end of each unit. The Year 11 mock exam is a full 120-minute past paper. There are also a range of different exam style questions pupils complete in class in timed conditions.		
Developing Independent and Home Learning Skills	Lessons are posted on the Google classroom, along with exam style questions.		
Useful e-Learning Resources (e.g., web links)	<p>AQA Design and Technology GCSE website: https://filestore.aqa.org.uk/resources/design-and-technology/specifications/AQA-8552-SP-2017.PDF</p> <p>Revision:</p> <ul style="list-style-type: none"> GCSE Design & Technology Revision- 24 videos https://www.youtube.com/watch?v=BfLcUG2vg9I&list=PLFrGcy2dv8TuxsqQJezvJjEla9GxSLK6K BBC Bitesize: GCSE AQA Design and Technology https://www.bbc.co.uk/bitesize/examspecs/zby2bdm Seneca website for Design & Technology: AQA GCSE: https://app.senecalearning.com/dashboard/class/o00djwikcn/assignments/assignment/8498465f-6b2f-42c8-9970-ddb723a98a80 		
Equipment for lessons	Black pen, green pen, pencil, rubber, ruler, highlighter, calculator, glue stick.		
Enrichment activities	Intervention sessions and visit to the Design Museum.		
Careers curriculum	Studying Design and Technology will help pupils to develop a wide variety of employability skills as well as developing an understanding of how designs impact on daily life and the wider world around us.		
Head of Department and email contact	Mr A Yiacoumi a.yiacoumi@wansteadhigh.co.uk Head of Department Art, Design and Technology		