# Subject: Design & Technology Graphics



## KS4 - Year 10 Curriculum Overview

#### Topics being taught

New and Emerging Technologies - Unit 3: Wider Implications: New and **Emerging Technologies** 

- Unit 7: New and Emerging Technology.
- Sketching initial ideas.
- CAD modelling and development.
- 3D printing of a final idea.

#### **Energy and Controlled Movement**

- Unit 3: Wider Implications: Sources of Energy.
- Unit 6: Controlled Movement.
- Sketching initial ideas.
- Prototype modelling and development.

#### What you will be assessed on

#### **Stepping Stone Assessment**

- Unit 7: New and Emerging
- Technologies.

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- **Progress grade**: quality of project submission.

#### Milestone Assessment

- Unit 3: New and Emerging
- Technologies: Sources of Energy.
- Unit 6: Controlled Movement
- **Progress grade**: quality of project submission.

#### How you can support at home

Seneca: 2.2 Impact of New and **Emerging Technologies** 

Independent Reading: Chapters 5 and 14 New and Emerging Technologies.

Seneca: 8 Technical Understanding; 3.2 Energy Generation and Storage.

Independent Reading: Chapter 6 Sources of Energy; 12 Controlled Movement; 13 Electronic Systems.

#### CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

#### Topics being taught

Illustration / working with textiles. - Unit 5: Material Categories -Textiles.

#### What you will be assessed on

**Stepping Stone Assessment** - Unit 5: Material categories - How you can support at home

Independent Reading: Chapter 10

Categories of Materials (Pg. 32-33)

Seneca: 5 Material categories (5.1.6 Textiles).

Autumn Term

- Advanced Adobe Illustrator skills.
- CAD preparation for 2D Design.
- Applying vinyl graphics to textiles.

#### Mechanical systems

- Unit 8: In-Depth Papers and Boards.
- Sketching initial ideas
- Dieline prototype modelling and development.
- Using Adobe Illustrator to create graphics for packaging.

- Progress grade: quality of project submission.

#### Milestone Assessment

- Unit 8: In-Depth Papers and
- Boards.

submission.

textiles.

- **Progress grade**: quality of project
- Seneca: 9 Manufacturing Processes & Techniques.

Independent Research: The work of Robert Sabuda.

### EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

Topics being taught		What you will be assessed on		How you can support at home
<b>Exam Technique and Practice.</b> - Unit 1: Identifying Requirements. - Unit 2: The work of others. - Unit 3: Wider Implications.	Term	<b>Stepping Stone Assessment</b> - GCSE exam style extended questions.		Independent Revision.
<ul> <li>- Unit 3: Wider Implications.</li> <li>- Unit 4: Design Communication.</li> <li>- Unit 5: Material Categories.</li> <li>- Unit 6: Controlled Movement.</li> <li>- Unit 7: New and Emerging Technologies.</li> <li>Unit 8: In-Depth Papers and Boards.</li> </ul> Non Exam Assessment (NEA).	n 5			GCSE exam style extended questions.
	Term 6	Year 10 Finals Assessment - GCSE Level exam paper. - Progress grade: Teacher Assessed Grade.		Independent NEA study.
				Independent Reading: Chapter 15 In-Depth papers and boards.