

Subject:

Design & Technology



HECKMONDWIKE
GRAMMAR SCHOOL

KS3 - Year 8 Curriculum Overview

Autumn Term

Topics being taught

Graphics Rotation 1

- Digital photo manipulation using Adobe Photoshop.
- Printing processes and scales of production.
- Magazine cover design

Graphics Rotation 2

- Using product analysis to evaluate existing products
- Designing a dieline for packaging.
- Creating an air freshener using essential oils and silicone.
- Prototype modelling.

Term 1

What you will be assessed on

Milestone Assessment

- **End of unit test:** key terms and techniques for graphic design
- **Progress grade:** quality of Adobe Photoshop skills.

Term 2

Milestone Assessment

- **End of unit test:** key terms and techniques for graphic design.
- **Progress grade:** quality of final prototype

How you can support at home

Regularly test your child on the content written within their knowledge organiser.

Encourage your child to discuss what they have learnt in class to help them retrieve the information.

Test a final prototype as a primary user and evaluate it with your child.

Help your child to create flash cards to help them with their revision.

CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS - CHRISTMAS HOLIDAYS

Spring Term

Topics being taught

Resistant Materials Rotation 1

- Sustainability and the 6 Rs
- Communicating initial ideas through sketching and annotation.
- Using workshop tools, techniques and machines with precision and accuracy for prototype modelling.

Resistant Materials Rotation 2

- Motion and controlled movement
- Levers and mechanical systems.
- Testing and evaluation of design ideas.

Term 3

What you will be assessed on

Milestone Assessment

- **End of unit test:** Sustainability, Timbers, tools and machinery.
- **Progress grade:** quality of final prototype.

Term 4

Milestone Assessment

- **End of unit test:** controlled movement, levers and mechanical systems.
- **Progress grade:** quality of final prototype.

How you can support at home

Regularly test your child on the content written within their knowledge organiser.

Encourage your child to discuss what they have learnt in class to help them retrieve the information.

Test a final prototype as a primary user and evaluate it with your child.

Help your child to create flash cards to help them with their revision.

EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS - EASTER HOLIDAYS

Summer Term

Topics being taught

Food Prep. and Nutrition Rotation 1

- The Eatwell guide
- The functions of water
- Carbohydrates and energy
- Sources and the functions of protein
- Seasonal foods and food waste

Food prep. and nutrition Rotation 2

- Sources of micronutrients
- Factors affecting food choice
- Teenage diet and the school food standards.
- International cuisine.

Term 5

What you will be assessed on

Milestone Assessment

- **End of unit test:** The Eatwell guide, water, protein, carbohydrates and energy.
- **Progress grade:** quality of food outcomes

Term 6

Milestone Assessment

- **End of unit test:** Food choice, micronutrients, the school food standards
- **Progress grade:** quality of food outcomes

How you can support at home

Regularly test your child on the content written within their knowledge organiser.

Encourage your child to discuss what they have learnt in class to help them retrieve the information.

Evaluate practical outcomes with your child using sensory words.

Help your child to create flash cards to help them with their revision.