

Subject:  
**Design & Technology**



**HECKMONDWIKE**  
 GRAMMAR SCHOOL

**KS3 - Year 7 Curriculum Overview**

Autumn Term

Topics being taught

- Graphics**
- Sketching in isometric, one-point and two-point perspective.
  - Using rendering to add colour and texture to sketches.
  - Applying line weight to show depth when sketching.
  - How electrical systems and components can add functionality to products.
  - How to create 3D CAD models using SOLIDWORKS

Term 1

What you will be assessed on

- Stepping Stone Assessment**
- **End of unit test:** sketching techniques and principles.
  - **Progress grade:** quality of sketching skills.

Term 2

- Milestone Assessment**
- **End of unit test:** CAD modelling key terms and principles.
  - **Progress grade:** quality of final CAD model.

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.

Discuss ideas for a robot that could help with chores around the home.

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**
- Categories of natural and manufactured timbers.
  - Sustainability and the Forest Stewardship Council (FSC).
  - How to communicate initial ideas through sketching and annotation.
  - Workshop health and safety.
  - Using workshop tools, techniques and machines with precision and accuracy for prototype modelling.

Term 3

What you will be assessed on

- Stepping Stone Assessment**
- **End of unit test:** timbers and workshop tools and machinery.
  - **Progress grade:** quality of design ideas.

Term 4

- Milestone Assessment**
- **End of unit test:** timbers and workshop tools and machinery.
  - **Progress grade:** quality of final model.

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.

Discuss how you can become more sustainable as a family to help your child better understand sustainability.

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 Preparation and Nutrition**
- Kitchen equipment and utensils for food preparation
  - Healthy eating and the Eatwell Guide.
  - The functions of carbohydrates.
  - The functions of proteins and protein alternatives.
  - Factors affecting food choice.
  - Seasoning, flavouring and presentation.
  - Practical skills and outcomes.

Term 5

What you will be assessed on

- Stepping Stone Assessment**
- **End of unit test:** Kitchen tools and the Eatwell guide.
  - **Progress grade:** quality of practical skills and outcomes.

Term 6

- Milestone Assessment**
- **End of unit test:** Functions of Macronutrients.
  - **Progress grade:** quality of practical skills and 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.

Share your knowledge of cooking with your child to help them prepare for practical lessons.

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