

DESIGN & TECHNOLOGY Curriculum Map

SEND/PP

- Ingredients and materials for all
- Equipment available to all
- Inclusion for all
- Communication with XL
- Resources differentiated
- DT Hub club for any disadvantaged students
- Trips paid for all PP students

Cross Curricular

- Strong links with ICT-use of CAD/CAM and modern technology
- Mathematics incorporated into all year groups. KS4/5 courses have specific maths sections.
- STEM links across the year groups through project work and extra curricular.

Year 7

- **Textiles**- Ugly project- Sewing machine/ buttons/sequins/ applique.
- **Graphics**- Graphics skills/3d drawing/Rendering.
- **Engineering**- Ear phone holder: CAD/CAM/2d design/Vacuum forming.
- **Product Design**-Lamp project: H&S/Material properties/Electronics.
- **Food Tech**-Knife safety/how the cooker works and how to use it/ food safety.

Enrichment

- **Visiting speakers :** Bentley, KMF engineering, Radway Green engineering, Chester university, Industry textiles professionals, Royal Navy, Chefs from Alexander and Marriott hotels. Siemens engineers.
- **Links with companies:** Siemens, Berisfords, Bird Bellows, Pecks, Marriot/Alexander hotels, KMF engineering, Bentley. Radway Green engineering.
- **After school clubs/Competitions:** Berisfords Textile comp, Siemens Rollercoaster Challenge, Lego competition, Rotary Young Chefs, Upcycling club, Cooking club, Textiles club and Couse work catch-up club, DT hub.
- **Trips:** London trip, Italy trip, Siemens factory, Berisfords factory , KMF.

Year 8

- **Textiles**- CAP project/Sublimation printing/tropunto.
- **Graphics**-Phone holder: CAD/CAM/JIT/Orthographic drawing.
- **Engineering**- Bottle opener: Metal skills/Vacuum forming/Machining.
- **Product Design**- Clock project: Design movements/Plastic properties/Hand tools.
- **Food Tech**- Healthy foods/ special diets/ understanding bread making/ Childhood obesity.

Assessment

- Marking grids
- Data sets
- Tracking sheets
- EBI/WWW
- Going Green
- Use of teams
- Extended homeworks
- End of unit tests
- Learning walks

Year 9

- **Textiles**- iPad holder/CAM embroidery/pocket making.
- **Graphics**- Animation project- Graphic skills/CAD design/Team work.
- **Engineering**- Sweet dispenser/mechanisms /Cad/Cam/woodworking skills.
- **Product Design**- Speaker project: Woodwork/Printing engraving/Machining.
- **Food Tech**- Healthy foods. Cooking methods/cake methods/ different types of pastry and its properties.

Preparation for KS4

- Directed theory
- Complex products/Processes
- Enjoyment
- Engagement
- Understanding of pathways

KS4

- Design and Technology AQA
- Food and nutrition Eduqas
- Engineering OCR

Preparation for KS5

- High Education pathways
- Courses that fit prior learning
- Links with local companies and apprenticeships
- Work experience opportunities

KS5

- Food science and Nutrition WJEC
- Engineering AQA
- Product Design AQA