

St Thomas More RC College Curriculum Topic Overview commencing September 2020

**Subject- Product Design KS3**

Week	Year 7 PD Remote Learning
1	Health and Safety, Design Brief & Existing products
2	Task analysis & Cams
3	Oblique Projection
4	Rendering
5	Annotation of design idea
6	Marking out & cutting (Tenon saw)
7	Filing & smoothing
8	Drilling, screwing & counter sinking
9	Cutting (coping saw)
10	Constructing, filling, smoothing & priming
11	Undercoating & painting
12	Correcting mistakes, touching up paint work

Week	Year 8 PD Remote Learning
1	Health and Safety & Design Brief
2	Existing products & Task analysis
3	Isometric drawing of cross & circle shape
4	Isometric drawing of umbrella & ring for keyring
5	Rendering & annotating
6	CAD (2D design) & laser cutting
7	Pewter casting & removing funnel
8	Filing & smoothing
9	Buffing
10	Drilling
11	Decorating
12	Packaging

Week	Year 9 PD Remote Learning
1	Health and Safety & Design Brief
2	Existing products & Task analysis
3	Perspective drawing
4	Drawing base for clock & clock face

5	Rendering & annotating
6	(CAD) 2D Design & laser cutting
7	Marking out & cutting
8	Chiselling & gluing
9	Filling & smoothing
10	Premier & undercoat
11	Painting & constructing
12	Electronics (Soldering)

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**Subject- Product Design KS4**

Week	KS4 Product Design Remote Learning
1	Market Pull & Technology Push & Customer Choice
2	Product Life Cycle & Global production
3	Legislation and consumer rights & Moral and ethical factors
4	Sustainability & CAD/CAM
5	Using CAM equipment & The importance of sustainability issues
6	Social, cultural, economic and environmental responsibilities & Fairtrade
7	Carbon footprint & Ecological footprint
8	Generation & storage of energy & Adv & Disadv of renewable energy sources
9	Renewable energy sources for products & Energy generation and storage
10	Primary sources & seasoning of timbers & Defects in timber
11	Types of natural timber & Manufactured timber
12	Deforestation & Selection of materials
13	Impact of forces & stress & Stock form
14	Calculating the cost & Scale of production
15	Marking out & Shaping wood