Design Technology - Year 7- Out of the Box – Hold It.

Use the resources below to support you when learning from home. You can use this to help catch up on missed work, to get that extra help you might need, or to show to your family what you have been learning about at school! This supports the understanding of the Design Process, modelling skills and Technical Knowledge you will be learning within year 7 for the different tasks set over the year.

Task	What we are learning	Resources
1: The design process	To demonstrate the understanding of the design process and how we use it in Design Technology	Activities: Complete design sheet showing your understanding on how the process works. Write a conclusion in your own words how the process works. Resources: <u>https://www.youtube.com/watch?v=W-eqjMc1Efs</u> <u>https://www.youtube.com/watch?v=EZDDUubN5WE</u>
2: Introduction & Problem	Be able to understand how to address a problem and gather the relevant information about it.	Thread: how to start this process - Problem Activities: Look at this real-life problem and see how a problem is researched. Once this has been explained and modelled the problem for this project is given to the pupils written up in their books and the facts shown to back it up. Resources: https://www.youtube.com/watch?v=Kr3N51BUFwE https://www.youtube.com/watch?v=7IP0Ch1Va44 Thread: Problem-Inspiration board
3: Inspiration board	Be able to understand the benefits of an inspiration board.	Activities: Create an Inspiration board based on cardboard furniture. Once this has been completed pupils need to print this out a stick into their books with a summary of their findings. Resources: https://www.youtube.com/watch?v=B1L-cZQLNTs Thread: Problem-Inspiration Board-Design Brief
4: FPT: Scamper	Be able to understand what SCAMPER means.	Activities: Work through the SCAMPER process explaining each step and apply this to an everyday product. Resources: <u>https://www.youtube.com/watch?v=ru9-74qLXAo</u> Thread: Problem-Inspiration Board-Design Brief
5: Design brief	Be able to understand and be break down a problem to write a design brief.	Activities: Look at this real-life problem and see how a brief is written. Once this has been explained the problem for this project is given and the pupils write the design brief themselves in their books. Resources: https://www.youtube.com/watch?v=oc8RP7Vfol0 Thread: Problem-Design Brief-Possible Solutions-Material Research-Specification-Initial Ideas-
6: Research- Material research	How different materials are made and their properties.	Activities: Watch the video to find out about the materials are made put this in their books as bullet points. Also use the knowledge mats to find out about stock sizes and finishing techniques. Resources: https://www.youtube.com/watch?v=HL2yvqSk8Ww Thread: Problem-Design Brief-Possible Solutions-Material Research-Specification-Initial Ideas-
7: Product analysis	Be able to look at other products and use ACCESSFM to give a product analysis about it.	Activities: Look at this real-life product, choose one and apply ACCESSFM to give a analysis about the product. From this then write a conclusion about the chosen product. Resources:

	1	https://www.com/com/com/com/com/com/com/com/com/com/
		https://www.youtube.com/watch?v=3gMh8vc4bvs Thread: Problem-Design Brief-Possible Solutions-Material Research-Specification-Initial Ideas-
8: Research FPT-	To have an	Activities:
nets and how	understanding of how	Create different solid 3D models based on 2D nets.
they work and	nets work	Resources:
assembled	and are produced.	https://www.youtube.com/watch?v=46GXbHBA6k4
		https://www.youtube.com/watch?v=ICmzPt3St7o
		https://www.youtube.com/watch?v=Ra8R-Xbzjmc
		https://www.youtube.com/watch?v=Q7IHIvNaKGc
		Thread: Problem-Design Brief-Possible Solutions-Material
		Research-Specification-Initial Ideas-
8 Specification	To understand the	Activities:
& Initial ideas	importance of a	Look at how a specification is broken down and master an
& Initial lacas		
	specification and why	example with the pupils.
	we use them.	Pupils to write a basic specification together in groups for the out
		of the box design brief.
		Resources:
		https://www.youtube.com/watch?v=UMH8gHl4kS4
		https://www.youtube.com/watch?v=jgeE5l2cRAk
		https://www.youtube.com/watch?v=xVvkONMT3zs
		Thread: Problem-Design Brief-Possible Solutions-Material
		Research -Specification -Initial Ideas-Modelling-Final
		development of design-Development of idea
9 Modelling &	How to manufacture	Activities:
Final	models of initial ideas to	Model final idea for further development, scale model.
Development of	show a	Resources:
Idea	3D representation.	https://www.youtube.com/watch?v=rYE8L7JFgQI
		https://www.youtube.com/watch?v=x6s3IGH4MyI
		https://www.youtube.com/watch?v=fj2aAn3pUwk
		Thread: Problem-Design Brief-Possible Solutions-Material
		Research -Specification -Initial Ideas-Modelling-Final
		development of design-Development of idea-Working Drawing-
		Production Plan
10 Working	How to manufacture	
10 Working		Activities:
Drawing &	models	Model final idea for further development, scale model.
Production Plan	of Final idea in a 3D	Resources:
	representation.	https://www.youtube.com/watch?v=CdX_V85L2MI
		Thread: Problem-Design Brief-Possible Solutions-Material
		Research -Specification -Initial Ideas-Modelling-Final
		development of design-Development of idea-Working Drawing-
		Production Plan-Production of Final Prototype-Final Evaluation-
		Reflection
11 Production of	How to	Activities:
Final Prototype	manufacture Final idea in a 3D representation.	Produce final idea with further development, scale model.
Γιτιαι Ρτοτοτγρε	manufacture Final idea	Produce final idea with further development, scale model. Resources:
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12 Final Evaluation &	manufacture Final idea in a 3D representation.	Produce final idea with further development, scale model. Resources: <u>https://www.youtube.com/watch?v=k_9Q-KDSb9o</u> Thread: Problem-Design Brief-Possible Solutions-Material Research -Specification -Initial Ideas-Modelling-Final development of design-Development of idea-Working Drawing- Production Plan- Production of Final Prototype-Final Evaluation- Reflection Activities: To write a reflective evaluation based on their specification with
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		Production Plan- Production of Final Prototype-Final Evaluation- Reflection
Out of the Box	Pupils are using their Design skills, Technical Knowledge and Making skills to produce a model of a prototype piece of furniture which can be produced from Waste cardboard packaging from Amazon. This is showing pupils what we can do as Designers to help resolve the problem with have with waste and supporting the environment.	Resources: https://www.youtube.com/watch?v=GZFwa0WIsLk https://www.youtube.com/watch?v=Dotgnw1JxG8 https://www.youtube.com/watch?v=VPIQDAvmBBU https://www.youtube.com/watch?v=IBkQCemuAGM https://www.youtube.com/watch?v=AgAF6s63Ls https://www.youtube.com/watch?v=ZSbSUwNCwgw https://www.youtube.com/watch?v=VP3FPd2dGGo https://www.youtube.com/watch?v=g3MLAKa03fQ
Hold It!	Pupils are using their Design skills, Technical Knowledge and Making skills to produce a model of a prototype of a desk organiser for people who are working at home/from home. This is teaching the pupils to be problem solvers in the world they live in everyday.	Resources: https://www.youtube.com/watch?v=oUskPMAtdNk https://www.youtube.com/watch?v=5wGVPYuKfZs https://www.youtube.com/watch?v=YkE80yu-eYQ https://www.youtube.com/watch?v=ljrAaIT4GaU https://www.youtube.com/watch?v=AKZKYW2X_wl https://www.youtube.com/watch?v=SxNBzGwwOv4 https://www.youtube.com/watch?v=CSP6wOec-JA