

Home-School Learning Collaboration – Engineering



Topics in this cycle: Jigsaw and packaging	Taught: Spring 2	Year Group: 7 Engineering
Key knowledge/concepts to be learnt ('Tell me about....')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning
<p>What is a jigsaw puzzle? What are jigsaws made from? How is it made? Who uses them? Why do you think jigsaw puzzles are popular?</p> <p>Types of jigsaw puzzles Research different types of jigsaw puzzles Look at the different types of images are printed onto them. Look at 2D and 3D puzzles.</p> <p>What is CAD? How it is used in engineering. What does CAD stand for in Design? Learn how computers are used in 3D Design. What are the advantages / disadvantages of CAD. What software's are used to create 3D Design.</p> <p>What is packaging? Why is it important for products to have packaging? How important is it for packaging to be well designed?</p> <p>The four stages of Design The four stages of design are, planning and researching. Thumbnails- generating design ideas based on research. Rough design- Practicing one of the thumbnail designs you see as a possible final piece. Final design- The final outcome, this would also be the final product.</p> <p>2 Point Perspective Drawing Watch the following video on 2 Point Perspective and follow the steps. https://www.youtube.com/watch?v=M6MOIP_mLsc</p>		<p>How are jigsaw puzzles made? https://www.youtube.com/watch?v=nylElsB9MkE</p> <p>What is engineering? https://www.youtube.com/watch?v=btGYcizV0il</p> <p>What is packaging? https://www.youtube.com/watch?v=m6Fb2FuKRzI</p> <p>CAD https://www.techtarget.com/whatis/definition/CAD-computer-aided-design</p> <p>Pinterest Page https://www.pinterest.co.uk/susannajtawny/jigsaw-puzzles/</p> <p>GCSE Design and Technology - BBC Bitesize</p> <p>Free Design Tool: Presentations, Video, Social Media Canva</p>

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Here is a harder one to try
<https://www.youtube.com/watch?v=Sqy4davrMJc>

Key Vocabulary and Definitions To Be Learnt		What Will the Assessment Look Like?
Investigate/research	Carry out research or study into, study of materials and sources to establish facts and reach new conclusions.	End of Unit test: 30 minutes <ul style="list-style-type: none"> • Short answer questions • Multiple choice • Extended writing/design task
Design	A plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.	
CAD	Computer Aided Design. The use of computer software to make a 2D or 3D design.	
2 Point Perspective	A drawing technique that helps draw objects at 3D angles.	
Brand	A brand is a company's identity. This includes logos, slogans and imagery.	
3D Design	The planning, designing and creation of a 3D design. The 3D design is usually done in CAD.	Family Learning Opportunities
Evaluate	To evaluate is defined as to judge the value or worth of someone or something.	
Consumer	A consumer is a person who buys a product or uses a service in the public or private sector.	

Buy a jigsaw and complete it with someone from home. Charity shops are a great place to find second-hand jigsaws, which is better for the environment!

Try making your own jigsaw puzzle by drawing a picture onto a piece of paper and cutting it up with scissors. See if a friend or family member can finish your puzzle.

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		Draw a package design for your puzzle. How are you going to get peoples attention?
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