

# Home-School Learning Collaboration – Engineering

<b>Topics in this cycle:</b> Jigsaw and packaging	<b>Taught:</b> SPRING 1	<b>Year Group:</b> 7
Key knowledge/concepts to be learnt ('Tell me about....')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning
<p><b>What is a jigsaw puzzle?</b>            What are jigsaws made from?            How is it made?            Who uses them?            Why do you think jigsaw puzzles are popular?</p> <p><b>Types of jigsaw puzzles</b>            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><b>What is CAD? How it is used in engineering.</b>            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><b>What is packaging?</b>            Why is it important for products to have packaging?            How important is it for packaging to be well designed?</p> <p><b>The four stages of Design</b>            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><b>2 Point Perspective Drawing</b>            Watch the following video on 2 Point Perspective and follow the steps.  <a href="https://www.youtube.com/watch?v=M6MOIP_mLsc">https://www.youtube.com/watch?v=M6MOIP_mLsc</a></p>		<p>How are jigsaw puzzles made?  <a href="https://www.youtube.com/watch?v=nylElsB9MkE">https://www.youtube.com/watch?v=nylElsB9MkE</a></p> <p>What is engineering?  <a href="https://www.youtube.com/watch?v=btGYcizV0il">https://www.youtube.com/watch?v=btGYcizV0il</a></p> <p>What is packaging?  <a href="https://www.youtube.com/watch?v=m6Fb2FuKRzI">https://www.youtube.com/watch?v=m6Fb2FuKRzI</a></p> <p>CAD  <a href="https://www.techtarget.com/whatis/definition/CAD-computer-aided-design">https://www.techtarget.com/whatis/definition/CAD-computer-aided-design</a></p> <p>Pinterest Page  <a href="https://www.pinterest.co.uk/susannajtawny/jigsaw-puzzles/">https://www.pinterest.co.uk/susannajtawny/jigsaw-puzzles/</a></p> <p><a href="#">GCSE Design and Technology - BBC Bitesize</a></p> <p><a href="#">Free Design Tool: Presentations, Video, Social Media   Canva</a></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.	<b>End of Unit test:</b> 30 minutes <ul style="list-style-type: none"> <li>• Short answer questions</li> <li>• Multiple choice</li> <li>• Extended writing/design task</li> </ul>
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.	<b>Family Learning Opportunities</b>
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.

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