



Year 8 Design & Technology - Systems Night Light Learning Programme 5

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|--|---|--|---|
| The LORIC skill focus for his LP is: COMMUNICATION | | | Literacy: |
| The Moral Virtues focus for this LP are: COURAGE an | | | Capital letters must be used at the sta of sentences and for the first letter of |
| Courage - Acting with bravery and overcoming fears. | • | | proper nouns |
| Humility - Having a modest view of oneself. | | | Full stops must be used at the end of |
| What will I be learning about in this Learning Programme? | ? | | sentence |
| lectronic systems and their input, process and output. The function of electronic components. How to solder safely to produce a functioning Night Light. | | Question marks must be used at the | |
| How to use CAD/CAM to create a lamp shade. | | | end of a question |
| | | | Apostrophes should only be used for |
| Where have I seen this learning before? | | | possession or omission |
| In KS2 design & technology you will have used simple electronic components to make electrical systems in a product. | | | Days of the week and months must I spelled correctly |
| | | | Key words must be spelled correctly |
| | | | ,, |
| What could I use it for? | | | |
| • | onic systems in design & technology over your next 6 years; you | will apply your knowledge of | |
| electronic systems in the GCSE Design & Technology exam. | | | |
| | | | |
| n LP5.1, I will know: | 12/05/25 - (WK 1) | Key Vocabulary | Homework |
| vhich steps to follow to safely solder; | | | Produce a step-by-step storyboard to |
| now to safely and precisely solder components onto a circu | uit board. | California | explain how to use the soldering iron |
| | | Soldering | safely. |
| | | | , |
| n LP5.2, I will know: | 19/05/25 - (WK 2) | Key Vocabulary | Homework |
| iow to use CAD 2D Design to present a Night Light shade fi | | | Explain the positives and negatives of |
| | | CAD (Computer | using CAD. |
| | | aided design) | |
| | | alded designly | |
| | | | |
| P5 RLW, I will: | 02/06/25 - (WK 1) | | |
| | | _ | |
| eview my learning, recalling and applying key knowledge, a | and focus on closing any gaps in my knowledge. | | |
| eview my rearming, recaming and apprying key knowledge, t | and rocas on crossing any gaps in my knowneager | | |
| | | | |
| n LP5.3, I will know: | 09/05/25 - (WK 2) | Key Vocabulary | Homework |
| | | Key Vocabulary | |
| | | | |
| | | CAM (Computer | Explain the positives and negatives of |
| he advantages and disadvantages of using the CAM laser c | | | Explain the positives and negatives of |
| he advantages and disadvantages of using the CAM laser c | outter. | CAM (Computer aided manufacture) | Explain the positives and negatives of using CAM. |
| he advantages and disadvantages of using the CAM laser c ixtended Task. n LP5.4, I will know: | | CAM (Computer | Explain the positives and negatives of using CAM. Homework |
| he advantages and disadvantages of using the CAM laser c ixtended Task. n LP5.4, I will know: | utter. | CAM (Computer aided manufacture) | Explain the positives and negatives of using CAM. |
| he advantages and disadvantages of using the CAM laser c ixtended Task. n LP5.4, I will know: | utter. | CAM (Computer aided manufacture) Key Vocabulary | Explain the positives and negatives of using CAM. Homework |
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| he advantages and disadvantages of using the CAM laser c ixtended Task. n LP5.4, I will know: now to convert my 2D design file to the laser cutter. | utter. | CAM (Computer aided manufacture) Key Vocabulary | Explain the positives and negatives of using CAM. Homework |
| the advantages and disadvantages of using the CAM laser continuous control of the CAM laser cont | 16/06/25 - (WK 1) | CAM (Computer aided manufacture) Key Vocabulary Convert | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. |
| he advantages and disadvantages of using the CAM laser c extended Task. n LP5.4, I will know: now to convert my 2D design file to the laser cutter. n LP5.5, I will know: what the main stages of the vacuum forming process are; | 16/06/25 - (WK 1) 23/06/25 - (WK 2) | CAM (Computer aided manufacture) Key Vocabulary Convert | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework |
| he advantages and disadvantages of using the CAM laser c extended Task. n LPS.4, I will know: low to convert my 2D design file to the laser cutter. n LPS.5, I will know: what the main stages of the vacuum forming process are; | 16/06/25 - (WK 1) 23/06/25 - (WK 2) | CAM (Computer aided manufacture) Key Vocabulary Convert | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum |
| he advantages and disadvantages of using the CAM laser c extended Task. n LPS.4, I will know: low to convert my 2D design file to the laser cutter. n LPS.5, I will know: what the main stages of the vacuum forming process are; | 16/06/25 - (WK 1) 23/06/25 - (WK 2) | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum |
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| he advantages and disadvantages of using the CAM laser of extended Task. In LPS.4, I will know: In LPS.5, I will know: In LPS.5, I will know: In LPS.6, I will know: | 16/06/25 - (WK 1) 23/06/25 - (WK 2) | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. |
| he advantages and disadvantages of using the CAM laser of xtended Task. n LP5.4, I will know: ow to convert my 2D design file to the laser cutter. n LP5.5, I will know: what the main stages of the vacuum forming process are; ow to safely use the vacuum former to manufacture the n LP5.6, I will know: ow to finalise the soldering of my circuit; | 23/06/25 - (WK 1) 23/06/25 - (WK 2) Dight light base. 30/06/25 - (WK 1) | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. |
| he advantages and disadvantages of using the CAM laser of extended Task. In LP5.4, I will know: In LP5.5, I will know: In LP5.5, I will know: In LP5.6, I will know: | 23/06/25 - (WK 1) 23/06/25 - (WK 2) Dight light base. 30/06/25 - (WK 1) | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. |
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| he advantages and disadvantages of using the CAM laser of extended Task. In LP5.4, I will know: Out to convert my 2D design file to the laser cutter. In LP5.5, I will know: What the main stages of the vacuum forming process are; Out to safely use the vacuum former to manufacture the now to safely use the vacuum former to manufacture the now to finalise the soldering of my circuit; Out to test and troubleshoot any problems on my circuit be | 23/06/25 - (WK 1) 23/06/25 - (WK 2) Dight light base. 30/06/25 - (WK 1) | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. |
| he advantages and disadvantages of using the CAM laser of increase and disadvantages of using the CAM laser of increase and disadvantages of using the CAM laser of increase and increase a | 23/06/25 - (WK 1) 23/06/25 - (WK 2) aight light base. 30/06/25 - (WK 1) | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary Troubleshooting | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. Homework Manufacturing Diary. |
| the advantages and disadvantages of using the CAM laser of the company of the com | 23/06/25 - (WK 1) 23/06/25 - (WK 2) anight light base. 30/06/25 - (WK 1) roard. | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. Homework Manufacturing Diary. |
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| the advantages and disadvantages of using the CAM laser of the company of the com | 23/06/25 - (WK 1) 23/06/25 - (WK 2) anight light base. 30/06/25 - (WK 1) roard. | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary Troubleshooting Key Vocabulary | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. Homework Manufacturing Diary. Homework Primary user feedback of the night light |
| Axtended Task. In LPS.4, I will know: What the main stages of the vacuum forming process are; ow to safely use the vacuum former to manufacture the n In LPS.6, I will know: What the main stages of the vacuum former to manufacture the n In LPS.6, I will know: ow to finalise the soldering of my circuit; ow to test and troubleshoot any problems on my circuit b xtended Task. In LPS.7, I will know: | 23/06/25 - (WK 1) 23/06/25 - (WK 2) anight light base. 30/06/25 - (WK 1) roard. | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary Troubleshooting Key Vocabulary | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. Homework Manufacturing Diary. Homework Primary user feedback of the night light |
| he advantages and disadvantages of using the CAM laser of extended Task. In LP5.4, I will know: In LP5.5, I will know: In LP5.5, I will know: In LP5.6, I will know: In LP5.7, I will know: In L | 16/06/25 - (WK 1) 23/06/25 - (WK 2) night light base. 30/06/25 - (WK 1) noard. 07/06/25 - (WK 2) night light. | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary Troubleshooting Key Vocabulary Improvements | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. Homework Manufacturing Diary. Homework Primary user feedback of the night lig |
| he advantages and disadvantages of using the CAM laser of extended Task. In LP5.4, I will know: In LP5.5, I will know: In LP5.5, I will know: In LP5.6, I will know: In LP5.7, I will know: In L | 23/06/25 - (WK 1) 23/06/25 - (WK 2) anight light base. 30/06/25 - (WK 1) roard. | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary Troubleshooting Key Vocabulary Improvements | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. Homework Manufacturing Diary. Homework Primary user feedback of the night light |
| In LP5.3, I will know: the advantages and disadvantages of using the CAM laser of the advantages and disadvantages of using the CAM laser of the advantages and disadvantages of using the CAM laser of the CAM laser of the CAM laser of the CAM laser of the LP5.4, I will know: In LP5.5, I will know: What the main stages of the vacuum forming process are; how to safely use the vacuum former to manufacture the now to finalise the soldering of my circuit; how to test and troubleshoot any problems on my circuit be extended Task. In LP5.7, I will know: In | 16/06/25 - (WK 1) 23/06/25 - (WK 2) night light base. 30/06/25 - (WK 1) noard. 07/06/25 - (WK 2) night light. | CAM (Computer aided manufacture) Key Vocabulary Convert Key Vocabulary Vacuum forming Key Vocabulary Troubleshooting Key Vocabulary Improvements | Explain the positives and negatives of using CAM. Homework Explain the laser cutting process. Homework Describe the stages of the vacuum forming process. Homework Manufacturing Diary. Homework Primary user feedback of the night lig |



Create a safe soldering fact sheet for pupils to use a guide when soldering.