# Student worksheet: Engineering design

# ASK

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| --- | --- |
| What is the problem or challenge? |  |
| What are the constraints? |  |

# IMAGINE

|  |  |
| --- | --- |
| Brainstorm ideas | Write a short description of each of the ideas you came up with. |
| Choose the best one | Based on the information in your properties matrix and your brainstorm, decide which option is most likely to be successful. What factor was most important in helping you decide? |

# PLAN

|  |  |
| --- | --- |
| Draw your design | Draw a neat, labelled sketch of your design. |
| Gather the materials | List the materials that you will need for your design. |

# CREATE

|  |  |
| --- | --- |
| Follow your plan | Write down any problems you have and any changes you made to your design and why. |
| Test it out | Did it work? |

# IMPROVE

|  |  |
| --- | --- |
| What worked well with this design? |  |
| What changes could you make to improve your design? |  |