

ANSWER THE QUESTIONS WITH SKETCHES AND NOTES. CLICK ON EACH 'CAT' FOR HELPFUL LINKS.

MODELS AND PROTOTYPES KNOWLEDGE MAP

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS <https://www.facebook.com/groups/254963448192823/> www.technologystudent.com © 2020 V.Ryan © 2020

1. WHY IS IT IMPORTANT TO MAKE MODELS, AS PART OF THE DESIGN PROCESS?



2. CAD AND EVEN SPREADSHEET SOFTWARE, CAN BE USED TO PRODUCE A MODEL. WHY ARE COMPUTER MODELS IMPORTANT?



3. NAME AND DESCRIBE THE USE OF 5 PIECES OF MODEL MAKING EQUIPMENT. Include an image of each piece of equipment.



6. DESCRIBE THE PROPERTIES AND USE OF Balsa wood and Styrofoam. Include images of models made from these materials.



5. DESCRIBE CORRUGATED CARD and FOAM BOARD. Include images of both materials.



4. WHEN ARE ART STRAWS USEFUL AS A MODELLING MATERIAL?



7. WHAT ARE ARCHITECTURAL MODELS? WHY ARE THEY USEFUL? Include an image of an architectural model.



8. PASTE AN IMAGE OF A 'CAD' GENERATED MODEL. EXPLAIN WHY THE CAD MODEL IS VALUABLE TO A DESIGNER / CLIENT.



9. DESCRIBE AN EXAMPLE OF A 'COMPUTER GENERATED SYSTEMS MODEL'.

