DESIGN AND TECHNOLGY KNOWLEDGE MAP



HOW STRONG CAN YOU MAKE THE CHAIR FOR THE BEAR?





STRUCTURES – STRONG AND STABLE

SKILLS I NEED:

- DESCRIBE HOW CHAIRS ARE MADE FOR DIFFERENT USERS AND PURPOSES.
- EXPLAIN HOW DESIGN BRIEFS AND DESIGN CRITERIA HELP WHEN MAKING A NEW PRODUCT.
- NAME SOME SHAPES THAT ARE STRONGER THAN OTHERS.
- DESCRIBE HOW MAKING A MATERIAL THICKER MAKES IT MORE STIFF.
- UNDERSTAND AND USE THE VOCABULARY OF STRONG, WEAK, STIFF AND FLEXIBLE.
- MAKE A STABLE CHAIR STRUCTURE FOR A PARTICULAR USER.
- SELECT SUITABLE MATERIALS AND JOIN THEM SECURELY.
- EVALUATE A PRODUCT AGAINST THE DESIGN CRITERIA.
- IMPROVE PARTS OF A PRODUCT BASED ON THE DESIGN CRITERIA.

design brief	This tells you who the chair is for and how it will be used
design criteria	Things that the chair must have or do to work well
evaluate	Looking at what is good and bad about something and thinking about how to make it better
strong	Cylinder shapes are strong because they are curved
flexible	Things that bend easily
improve	Make something better by making it work well or look nicer
select	Something you choose that meets need
stiff	Things that cannot bend easily
thinner	Materials that are flexible
weak	Shapes with straight sides are weaker
thicker	Materials that are more stiff