

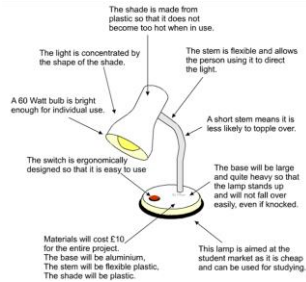
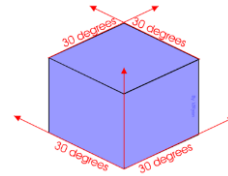
Key vocabulary

RISK	Doing something which could be dangerous or harmful
HAZARD	Potential harm or damage that could be caused
PRECAUTION	A step taken in advance to stop something dangerous or harmful happening
PROPERTIES	How materials react to applied forces
ORIGIN	The basic original source of something
SYNTHETIC	Man made not natural
BRITTLE	Hard but liable to break easily
MALLEABLE	Ability of a material to be shaped without breaking
ACCURACY	The closeness of a measurement to its correct value.
HARDNESS	Ability of a material to resist wear or being scratched
VINYL	A thermoplastic, thin and easily cut, used for decora
THERMOSET PLASTIC	A polymer which can only be heated and shaped once
THERMOPLASTIC	A polymer which can be heated and shaped repeatedly

YEAR 7 TRINKET BOX

Core knowledge and skills design

Isometric drawing is way of presenting designs/drawings in three dimensions. In order for a design to appear three dimensional, a 30 degree angle is applied to its sides. The cube opposite, has been drawn in isometric projection.



ANNOTATIONS- explanatory notes, easy to understand and well presented. easy to understand and well presented.



ALTERNATIVES TO MAN MADE PLASTICS

Plant-based plastic is a type of bioplastic that is created from agricultural scraps, often from corn, sugarcane, wheat or food waste. The term 'plant-based' refers to the source of the material itself, not how the resulting plastic will behave after it's been thrown away. Naturally occurring polymers include tar, shellac, tortoiseshell, animal horn, cellulose, amber, and latex from tree sap.



The Memphis Group was an Italian design and architecture group founded by Ettore Sottsass. It was active from 1980 to 1987. The group of artists and designers became known for their bright and bold furniture design.



MATERIALS

THERMOPLASTIC-ACRYLIC -Acrylic is hard wearing, brittle, has a glossy finish, comes in many different colours and softens between 85-165^o C .



THERMOPLASTIC- PVC- PVC is stiff, hard wearing and softens between 100-125^o C



MDF—Medium Density Fibreboard is a composite material, made of two materials—wood fibres and glue. MDF is a man-made product. Panels are made by applying high temperature and pressure. There is no grain making it easy to work with.



