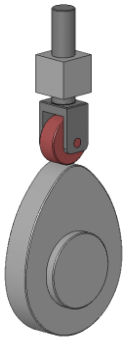




### Memphis, using designers to inspire your own work

Memphis is a design movement that began in 1981. Designer Ettore Sottsass founded the Memphis Group with other designers and architects. Like many creative movements, Memphis was a reaction against the status quo. The 1950s/60s mid-century modern and 1970s minimalism were about structure and straight lines.

### Levers, pulleys, gears and cams



-A lever is a solid bar which rests on a fixed pivot point and decreases the amount of force needed to move a load.

-A pulley is a wheel with a grooved rim around which a cord passes, which acts to change the direction of a force applied to the cord and is used to raise heavy weights.

-A cam is a projection on a rotating part in machinery, designed to make sliding contact with another part while rotating and impart reciprocal or variable motion to it.

-A gear is a toothed wheel that works with others to alter the relation between the speed of a driving mechanism (such as the engine of a vehicle) and the speed of the driven parts (the wheels).

### CAD/CAM

- Computer-aided design/computer-aided manufacturing, computer systems used to design and manufacture products. The term **CAD/CAM** implies that an engineer can use the system both for designing a product and for controlling manufacturing

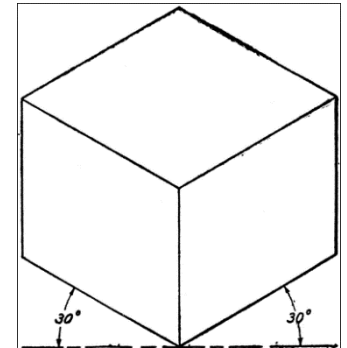


## The work of others and commercial manufacturing

## **KNOWLEDGE ORGANISER**

### Isometric drawing

-A method for visually representing three-dimensional objects in two dimensions in technical and engineering drawings.



### 2D design

-This is a (Computer Aided Design) programme you will use on the computer to complete designs that can be used to create things on the laser cutter

