

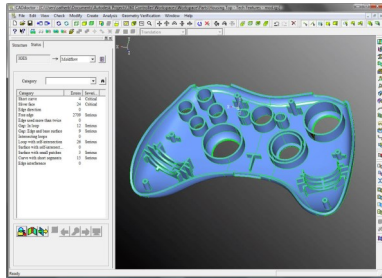


# Year 6 Design and Technology Knowledge Organiser



## Computer-Aided Design (CAD)

A way to digitally create 2D drawings and 3D models of real-world products before they are made.



## Earthquake-resistant Structures

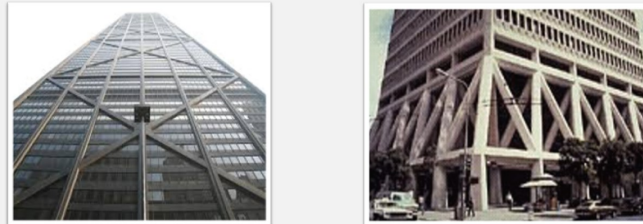
⇒ The Burj Khalifa, in Dubai, has been built to resist earthquakes



## Strengthening Structures

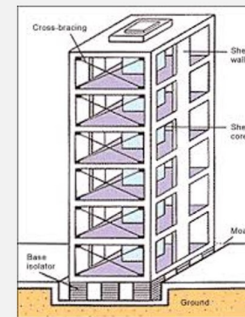
### Cross-bracing

Two diagonal supports in a X shape.  
This helps to provide strength and support preventing the building from twisting.



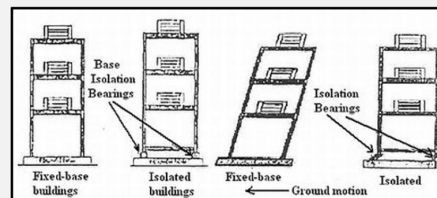
### Shear Walls

Thin walls made from concrete with steel bars in them.  
This helps to reduce rocking movements.



### Base Isolation or shock absorbers

This allows the building to move side to side as the earthquake happens and absorb the shock waves.



## Design Process

### Design Criteria

⇒ Design criteria are the goals that a project must achieve in order to be successful

### Design Process

