

LOADS AND FORCES

TYPES OF LOADS

→ static load

- has a constant size, position and direction on or within a structure
- eg: book

→ dynamic load

- changes size, position or direction
- eg: teenager on a swing

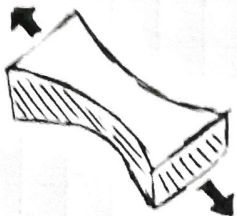
TYPES OF FORCES

→ compression



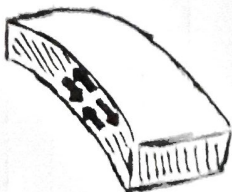
- part of the structure is 'squashed'

→ tension



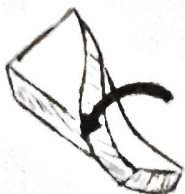
- part of the structure is 'stretched'

→ bending



- combination of tension and compression

→ torsion



- part of the structure 'twists'