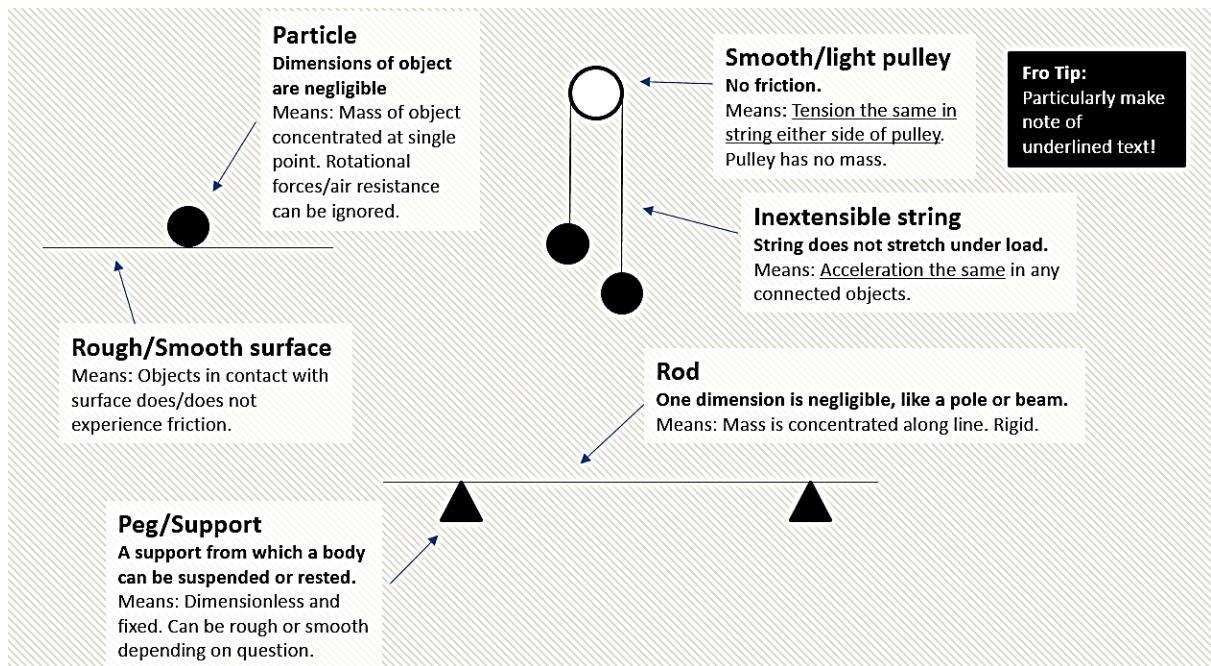


## Modelling Assumptions

We make modelling assumptions to simplify a problem and solve it using known mathematical techniques. You must be able to understand how these assumptions will affect calculations versus the real-life situation.

A full list of modelling assumptions is on p121 of the textbook. The most common are shown below.



### Example (Exercise 8B Question 2)

An ice puck is hit and slides across the ice.

State the effect of the following assumptions on any calculations made using this model:

- a The ice puck is modelled as a particle.      b The ice is smooth.