

Some of my difficulties with the world

Tony Mann

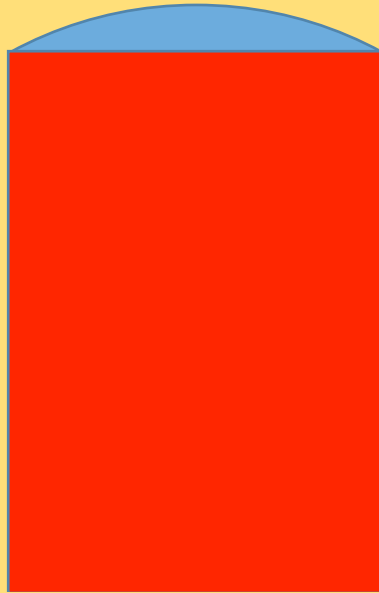
University of Greenwich

The perfect cup of coffee

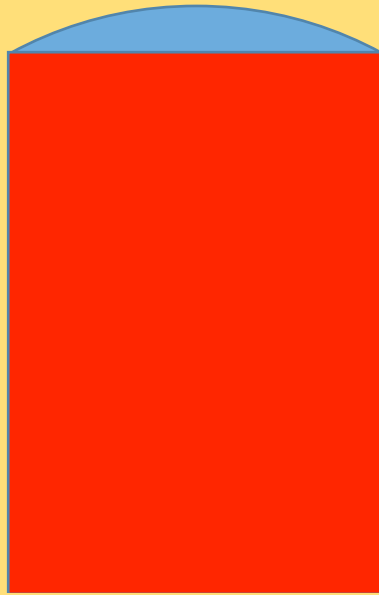


- How much does it hold?

How much coffee
does the mug hold?



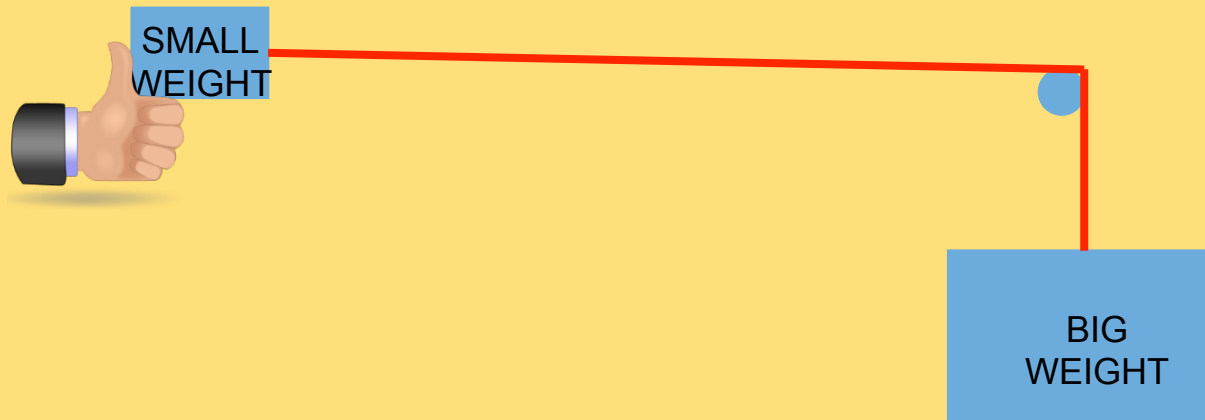
The higher up you are, the less it holds



Newton's Laws are all you need

- But my intuition lets me down

Example



What happens when the small weight is released?

Where does the big weight hit the ground?

1. Directly underneath its starting point
(gravity pulls it straight down)
2. To your right of its starting point (further away from my right hand)
(it picks up momentum from the small weight)
3. To your left of its starting point (nearer my right hand)
(momentum is conserved so it must cancel the momentum gained by the small weight)

Thank you!