

Light: shadows and how they change

energy-forces

What you need: battery torch · small upright object (wooden block or stiff card figure) · 30 cm ruler · metre stick · masking tape

Words to use

Shadow · Light height · Fair test

Our question

Does torch height change how long a shadow is?

I predict...because...

Sort these words into Change, Measure and Keep the same

torch height · shadow length · the object · where the object sits · the 30 cm horizontal distance from torch to object

Change – the ONE thing we change

Measure – the ONE thing we measure

Keep the same – to make it fair

Our results

Torch height (cm)	Shadow length (cm)

As the torch got higher, did the shadow get longer or shorter?
