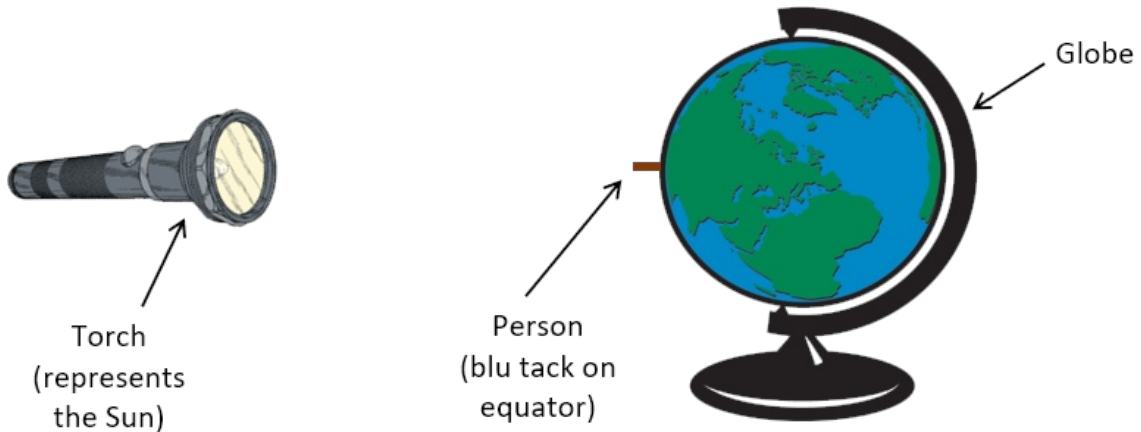


Modelling shadows

This task is about looking at the lengths of shadows in relation to the position of the sun.

Set up the task as shown in the diagram below.

The torch must be kept in the same place.



- a) Turn the globe to the position where the shadow created by the "person" (blu tack) is at its shortest. Explain why this happens.

- b) i) Turn the globe to the two positions where the person's shadow is the longest. Explain when this happens.

- ii) At what time(s) of day do the longest shadows occur?

- c) Turn the globe so that the person makes no shadow.
Explain when this occurs.

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