

## Calibrating Clocks: 2

1. Use the materials provided to make a sand timer like the one in the diagram.  
The size of the hole you make will affect the way your clock measures time.



2. Estimate the time it will take for the sand level to drop from one mark to the next on your clock. Record your estimates in a table.

Sand moves down	Estimated time taken	Measured time taken
1 mark		
2 marks		
3 marks		
4 marks		

3. Measure the time taken for the sand level to drop from one mark to the next on your clock.  
Record your results in a table.

*Were the times between the marks the same?*

*Why / Why not?*

*How could you make the time between each mark the same?*

4. Experiment with your clock and the way it measures time.

*What happens if you make the marks further apart?*

*What happens if you make the marks closer together?*

*Can you make each mark measure the same time period?*

*Can you make your clock measure 1 minute accurately?*

*Can you make your clock measure 5 minutes accurately?*