Why Have a Wick? 10SCIE - Fire & Fuels

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Learning Outcomes

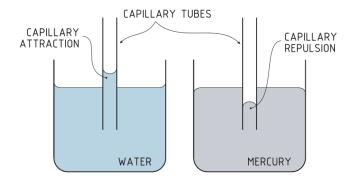
To be able to explain the function of a wick

What do you think a wick is for?

Walking Water Demonstration

Capillary Action

- Liquids can flow into narrow spaces, even against the direction of gravity.
- E.g. paper in water, paint brushes sucking up water, a thin tube in water.
- The surface tension and adhesive forces between the liquid and container propel the water into the narrow space.



How Things Ignite

When fire is held to paper 1. Molecules that are bound closely to one another on the surface of the paper are ...

... loosened by the heat.
 They move further apart
 from one another becoming
 a nas.

The gas molecules combine with oxygen molecules in the air and the paper begins to burn.







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Wick Practical

- 1. Safety
- 2. Practical read through
- 3. Check understanding each step
- 4. Explain must do Qs 1,2,3 during practical
- 5. Timeframe (20mins)
- 6. Clean up check

Discussion Points

- 1. Why didn't the solid paraffin wax ignite?
- 2. Did the liquid wax ignite? Why/ why not?

- 4. Why doesn't the wick burn? (clue: evaporation and sweating)