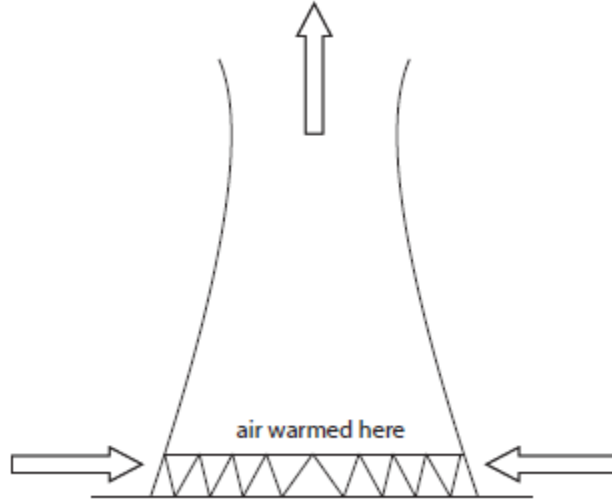


**Class VIII Physics**  
**Heat Transfer**

**Week 3**

**Date: 19 to 23 April 2020**

1. Cooling towers are designed to transfer thermal energy away from a power station.  
Heat from the power station warms the air in the cooling tower. Air enters through the bottom of the cooling tower and leaves through the top.



Explain why the air moves as shown above.

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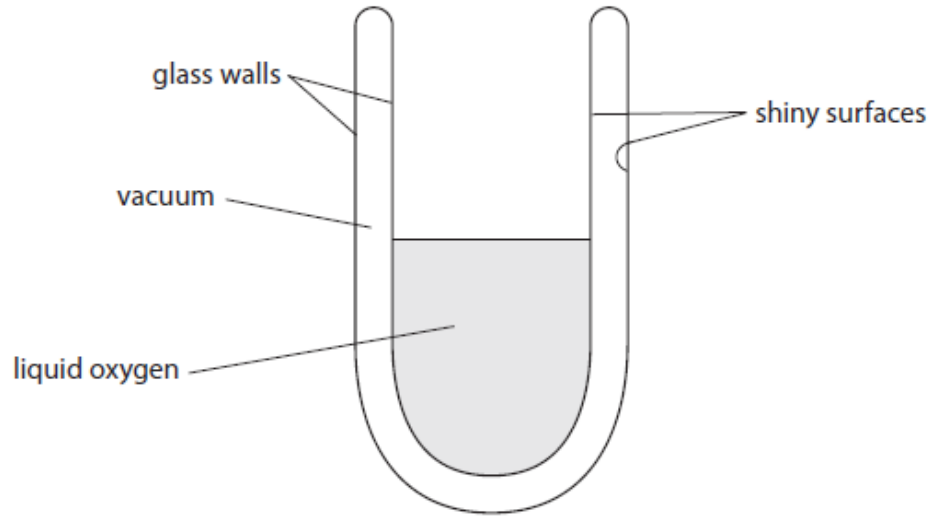
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2. Korim invented a special flask for storing liquid oxygen in the lab. It was designed to reduce heat flow from the air outside to the liquid oxygen inside. The diagram shows a cross-section of the flask.



- a. Explain how this flask reduce heat transfer to the very cold liquid oxygen from the surrounding room environment.

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- b. The flask does not have a lid. Suggest why a lid was not needed.

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**Learning Links:**

[https://youtu.be/Eizsm5V8c\\_c](https://youtu.be/Eizsm5V8c_c)