



SIR PRATEEK JAIN

- . Founder @Physicsaholics
- . Top Physics Faculty on Unacademy (IIT JEE & NEET)
- . 8+ years of teaching experience in top institutes like FIITJEE (Delhi, Indore), CP (KOTA) etc.
- . Produced multiple Top ranks.
- . Research work with HC Verma sir at IIT Kanpur
- . Interviewed by International media.



Prateek Jain

#1 Educator in Physics · IIT JEE

Senior Physics Faculty (KOTA) | 8+ yrs exp. | Produced AIR 6, AIR 10 etc. | Research work with HC VERMA sir at IIT K.

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Prateek Jain

#1 Educator in Physics · NEET UG

Senior Physics Faculty (KOTA) | 8+ yrs exp. | Produced AIR 6, AIR 10 etc. | Research work with HC VERMA sir at IIT K.

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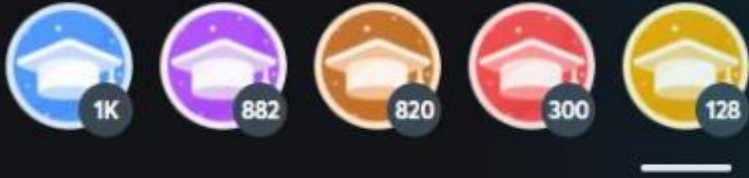
9M Watch mins (last 30 days)

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7K Dedications



Dedications



Gold Hat

Dedicated at 100k minutes



Pjj Mudassir Hussain BTS • 12 minutes ago

A good teacher is like a candle it consumes itself to light the way for others.Thanks sir



Medha Mishra • 3 hours ago

Sir you are best physics faculty that i have seen in my life i like your teaching style i like your way of explanation of concept and you make me capable to solving the physics problem thanku 😊
sir

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PRATEEK JAIN



RAMESH SHARDA



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- 5 Shubh Karan choudhary (...) ✓ Follow
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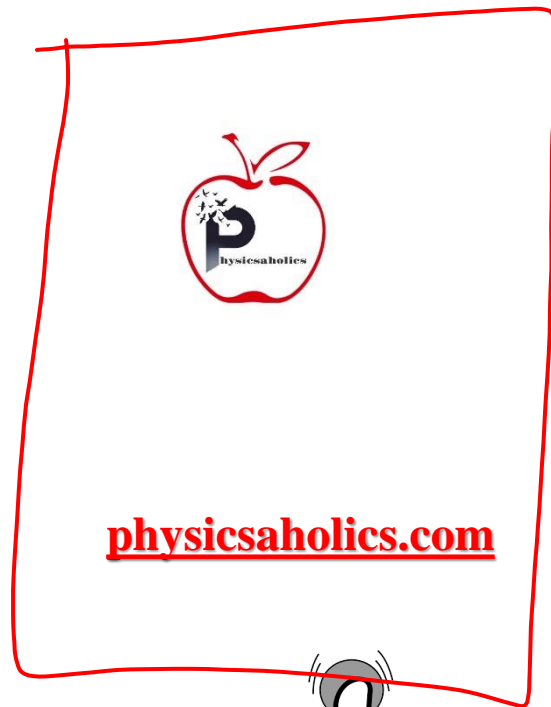


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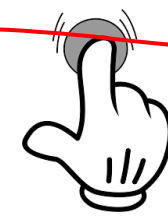
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H.C. Verma Physics

Questions for Short Answers

C-25 Calorimetry

By PRATEEK JAIN SIR



Q) Is heat a conserved quantity? No

→ Energy in transit
because of difference in T .

Is Energy conserved? Yes



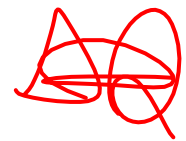


derived

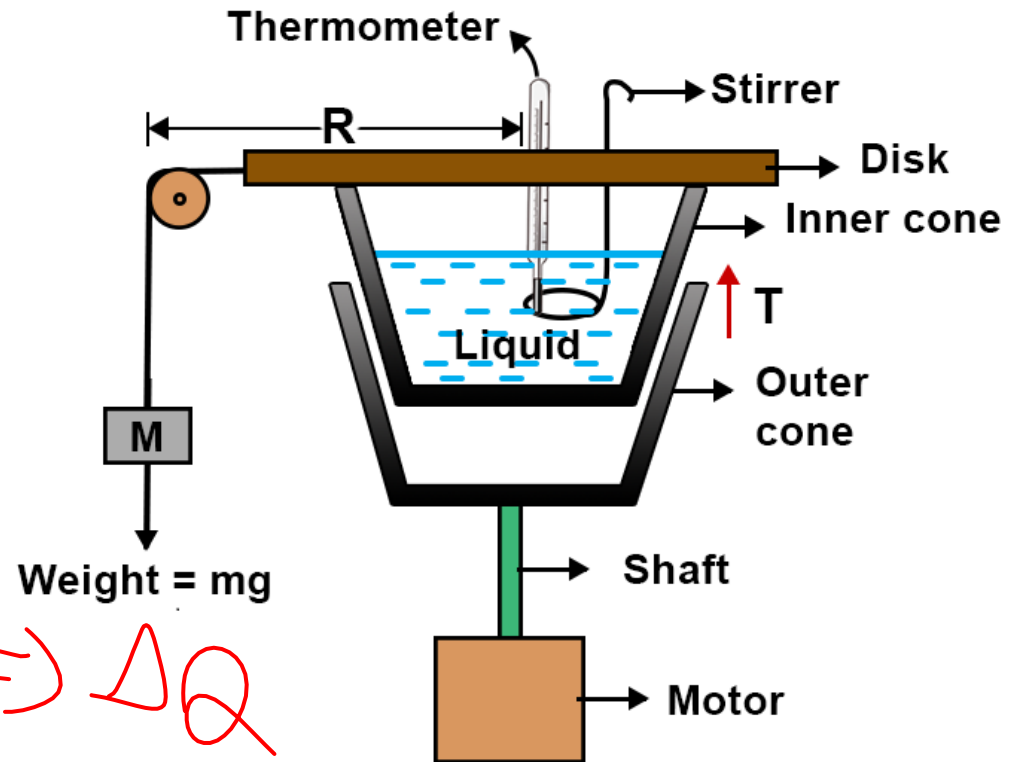
Q) The calorie is ~~defined~~ as 1 cal = 4.186 Joule. Why not as 1 cal = 4 J to make the conversions easy?

W.D \Rightarrow J

Heat \Rightarrow Cal.

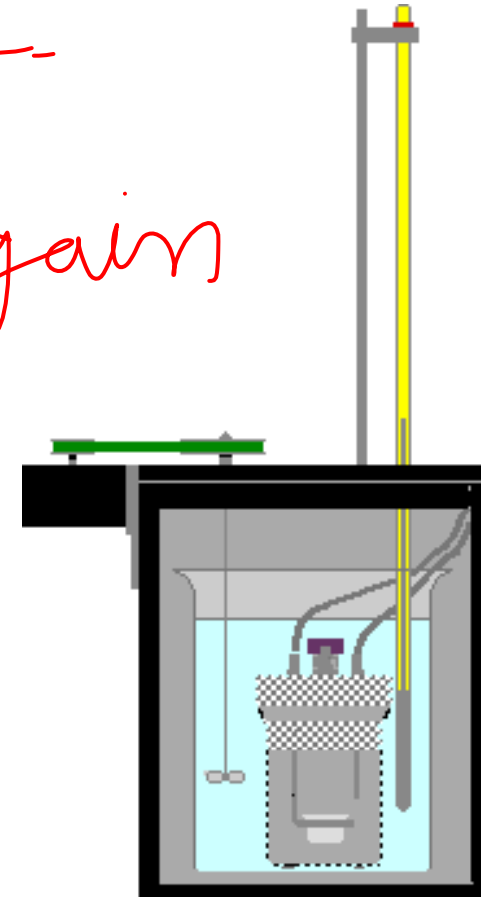


W.D \Rightarrow ΔQ



Q) A calorimeter is kept in a wooden box to insulate it thermally from the surroundings. Why is it necessary?

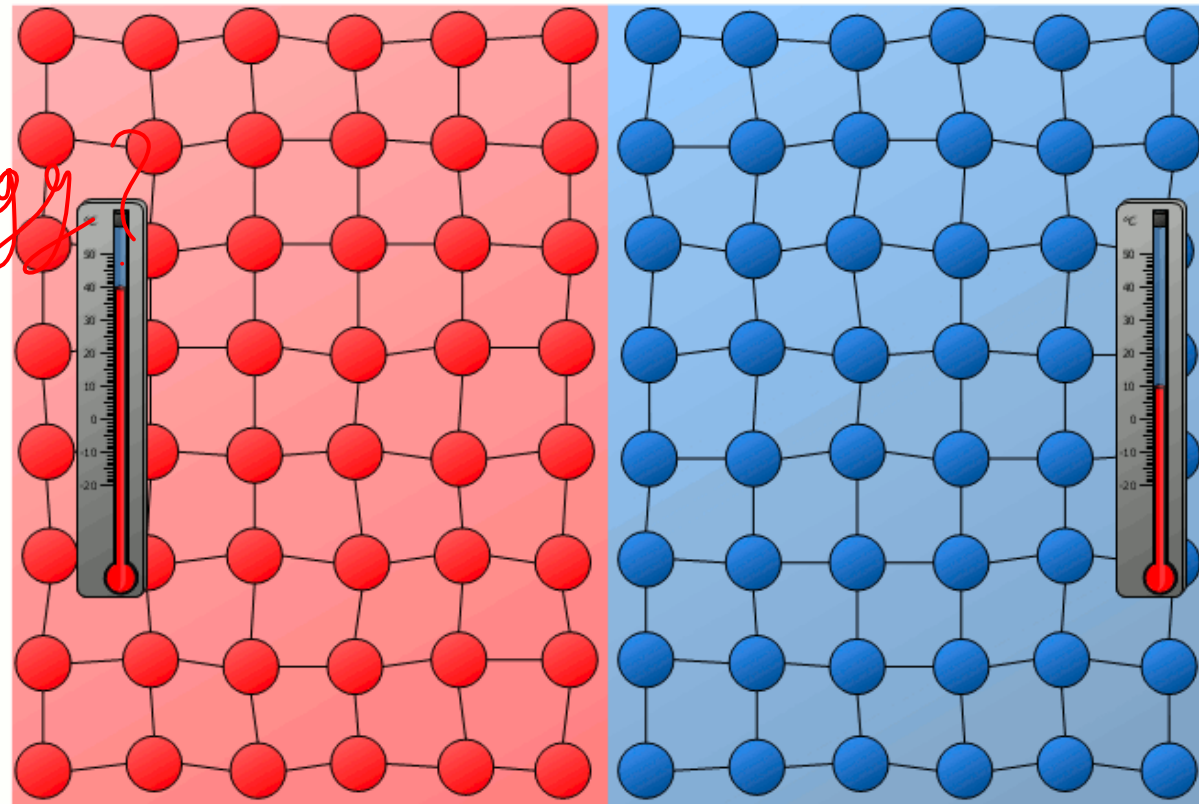
Heat lost
= Heat gain



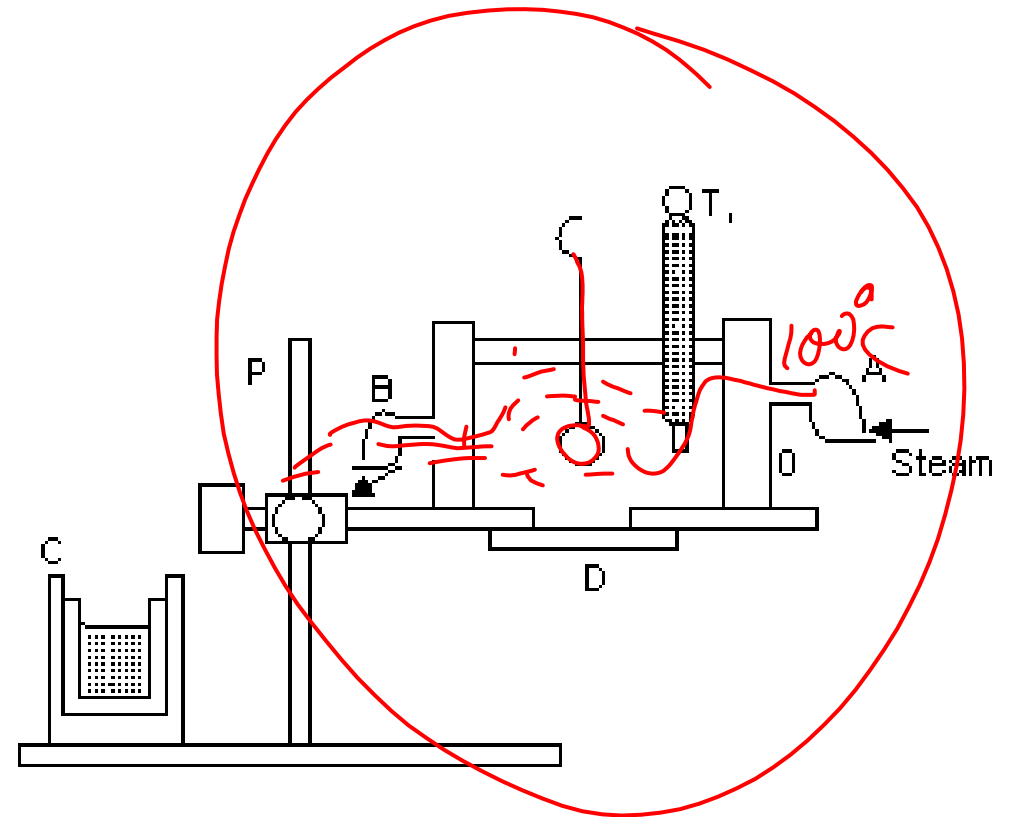
Q) In a calorimeter, the heat given by the hot object is assumed to be equal to the heat taken by the cold object. Does it mean that heat of the two objects taken together remains constant?

Meaningless

Internal energy?



Q) In Regnault's apparatus for measuring specific heat capacity of a solid, there is an inlet and an outlet in the steam chamber. The inlet is near the top and the outlet is near the bottom. Why is it better than the opposite choice where the inlet is near the bottom and the outlet is near the top?



Q) When a solid melts or a liquid boils, the temperature does not increase even when heat is supplied. Where does the energy go?

$T = \text{constant}$
Internal energy $\leftarrow U \uparrow$
0°C

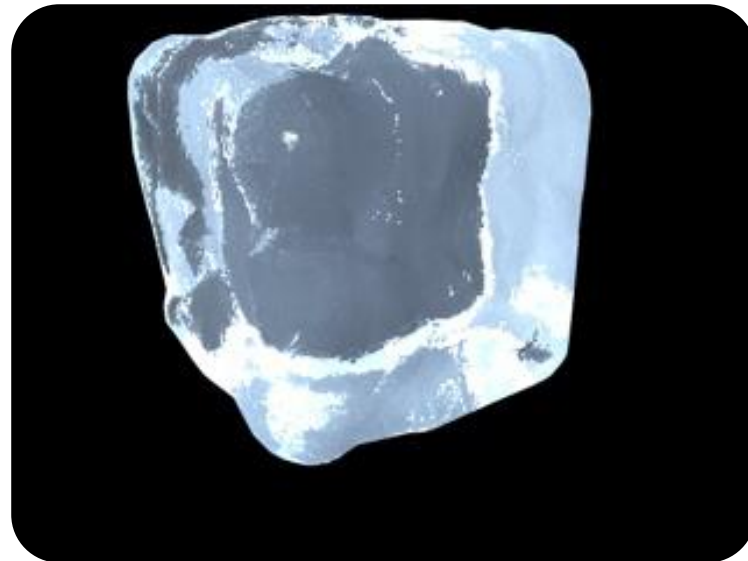
$U_{\text{int}} = U_{\text{KE}} + U_{\text{PE}}$
 \uparrow
 T



100°C

Q) What is the specific heat capacity of (a) melting ice (b) boiling water?

 $\Delta T = 0$



$\Delta T = 0$

$$s = \frac{\Delta Q}{m \Delta T}$$

$\Delta T \rightarrow 0$



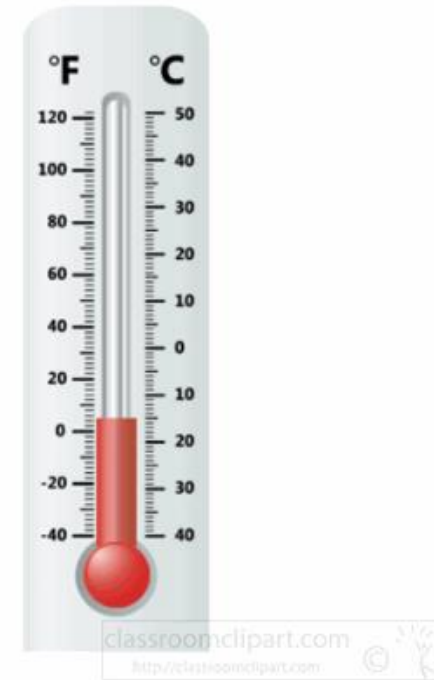
Q) A person's skin is more severely burnt when put in contact with 1 g of steam at 100°C than when put in contact with 1 g of water at 100°C. Explain



Q) Should a thermometer bulb have ~~large~~ heat capacity or small heat capacity?

✓

$$C = \frac{\Delta Q}{\Delta T}$$



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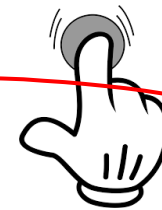
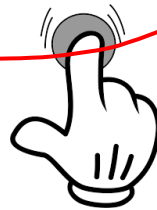
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Chalo Niklo