



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

Following

#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.

138M Watch mins

10M Watch mins (last 30 days)

78K Followers

7K Dedications





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.

124M Watch mins

9M Watch mins (last 30 days)

71K Followers

7K Dedications



Following

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

HIGHEST NO. OF GOLDEN HATS

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For NEET 2022





DR. AMIT GUPTA



PRATEEK JAIN



RAMESH SHARDA



SHUBHKARAN CHAUDHARY

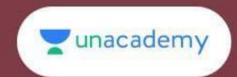


AJAY KUMAR MISHRA



SANDEEP NODIYAL

Starts on Aug 11



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Vineet Loomba



Prateek Jain



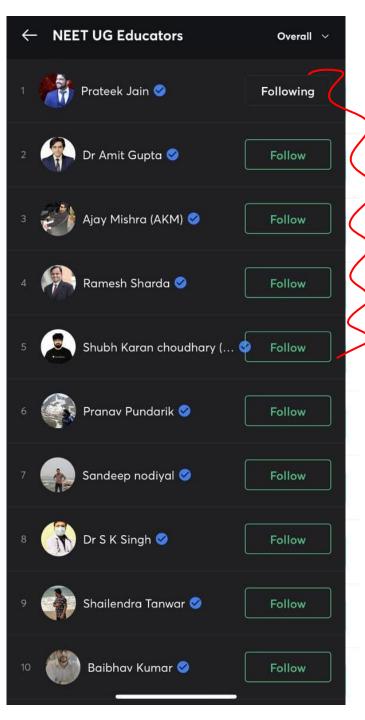
Sachin Rana



Piyush Maheshwari

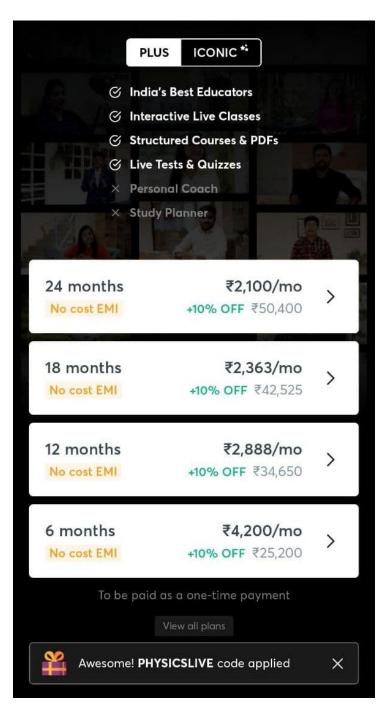


Brijesh Jindal





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H.C. Verma Physics Questions for Short Answers

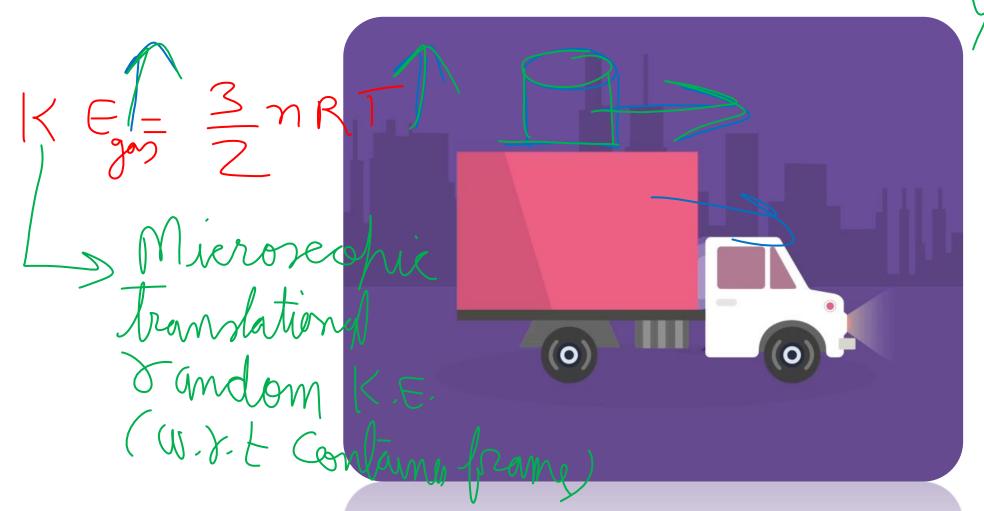
C-24 Kinetic Theory of Gases

By PRATEEK JAIN SIR

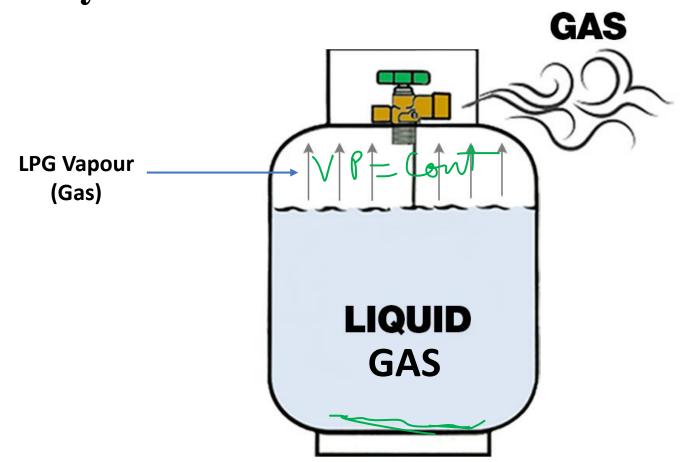


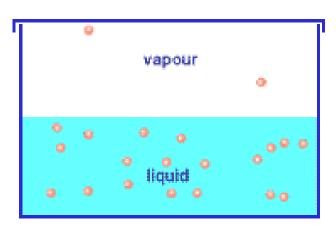
Q) When we place a gas cylinder on a van and the van moves, does the kinetic energy of the molecules increase?

Does the temperature increase? > _\o

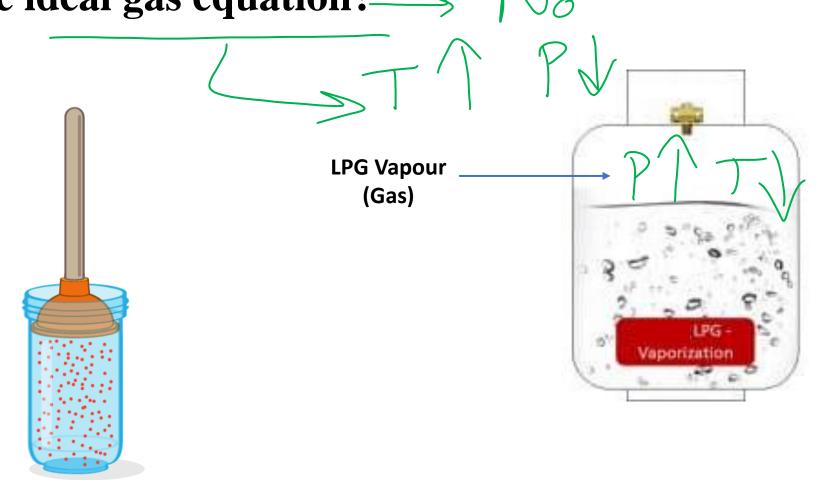


Q) While gas from a cooking gas cylinder is used, the pressure does not fall appreciably till the last few minutes. Why?

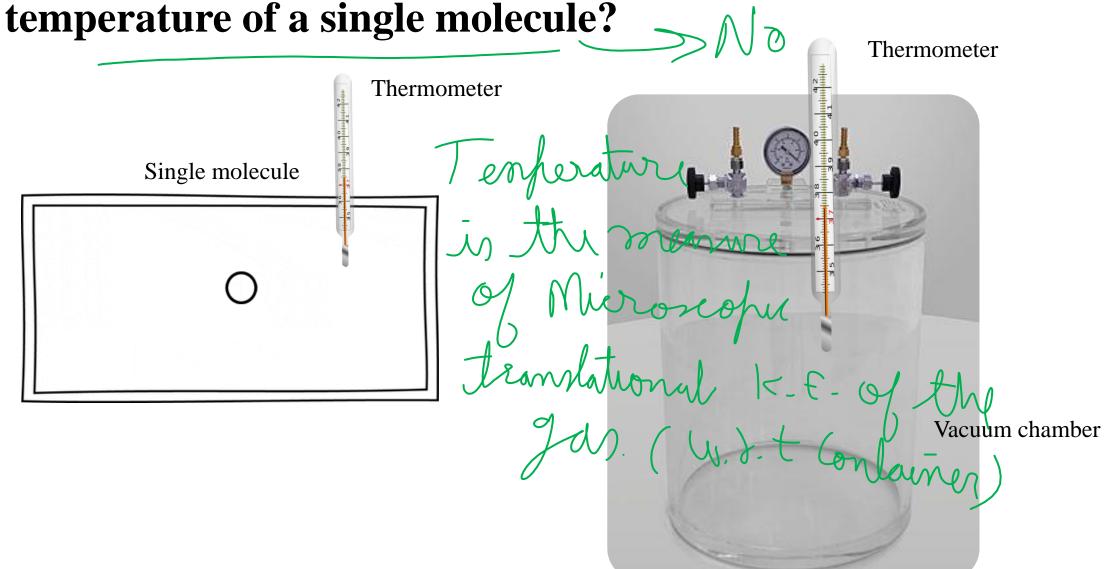




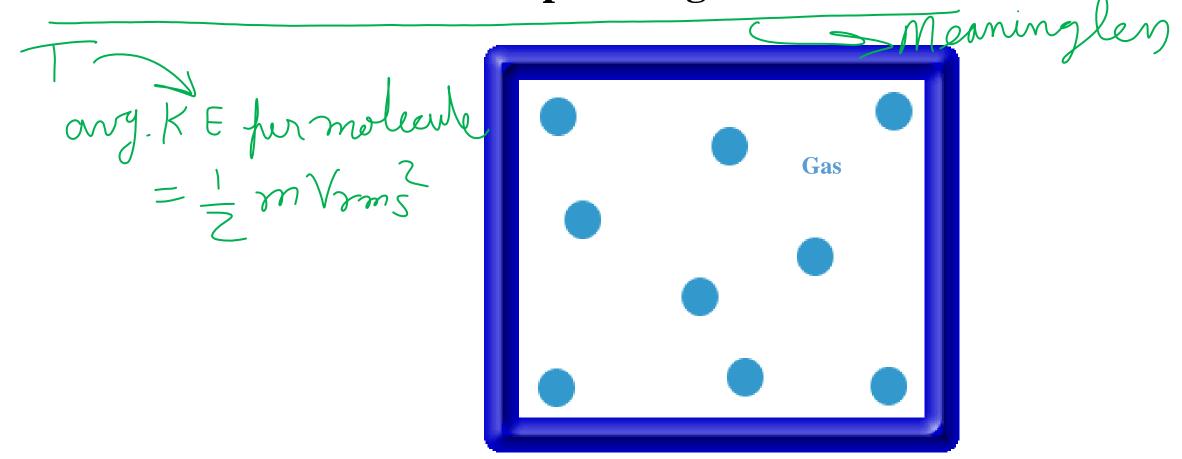
Q) Do you except the jas in a cooking gas cylinder to obey the ideal gas equation?



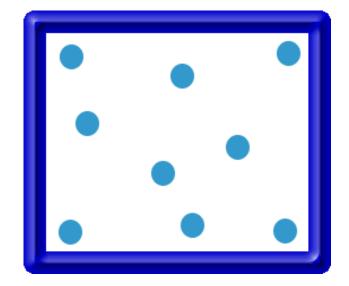
Q) Can we define the temperature of vacuum? The



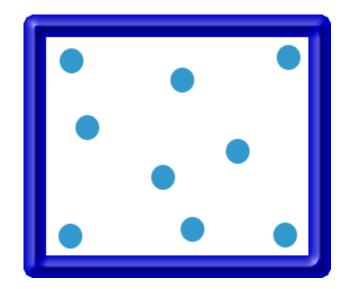
Q) Comment on the following statement. The temperature of all the molecules in a sample of a gas is the same.



Q) Consider a gas of neutrons. Do you except it to behave much better as an ideal gas as compared to hydrogen gas at the same pressure and temperature?

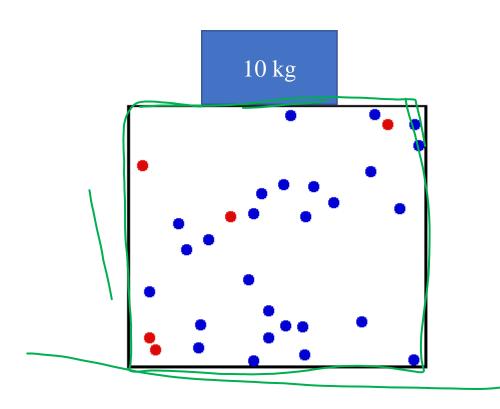


 H_2 gas

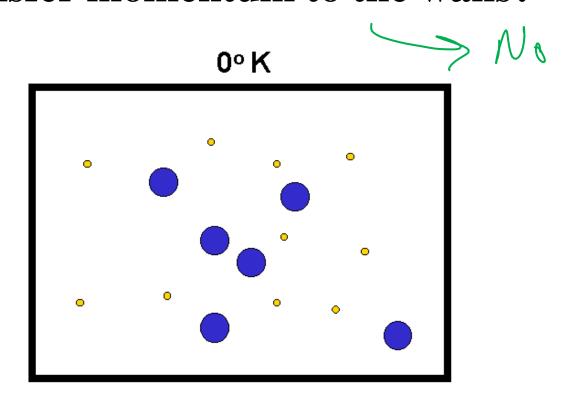


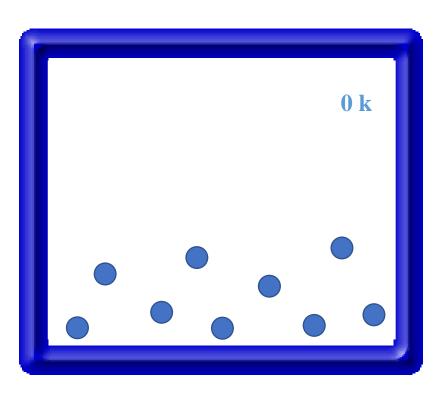
Neutrons gas

Q) A gas is kept in a rigid cubical container. If a load of 10 kg is put on the top of the container, does the pressure increase? \sim \sim \sim



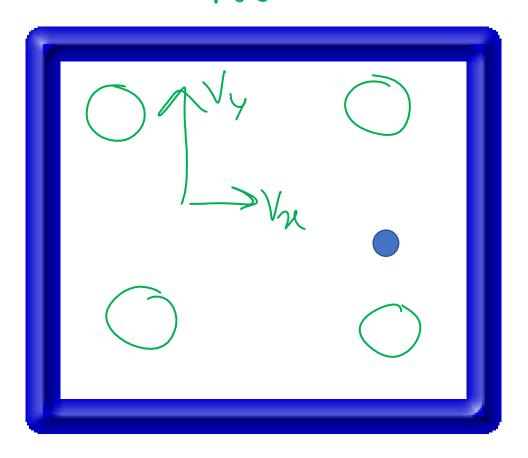
Q) If it were possible for a gas in a container to reach the temperature 0 K, its pressure would be zero. Would the molecules not collide with the walls? Would they not transfer momentum to the walls?







Q) It is said that the assumptions of kinetic theory are good for gases having low densities. Suppose a container is so evacuated that only one molecule is left in it. Which of the assumptions of kinetic theory will not be valid for such a situation? Can we assign a temperature to this gas?

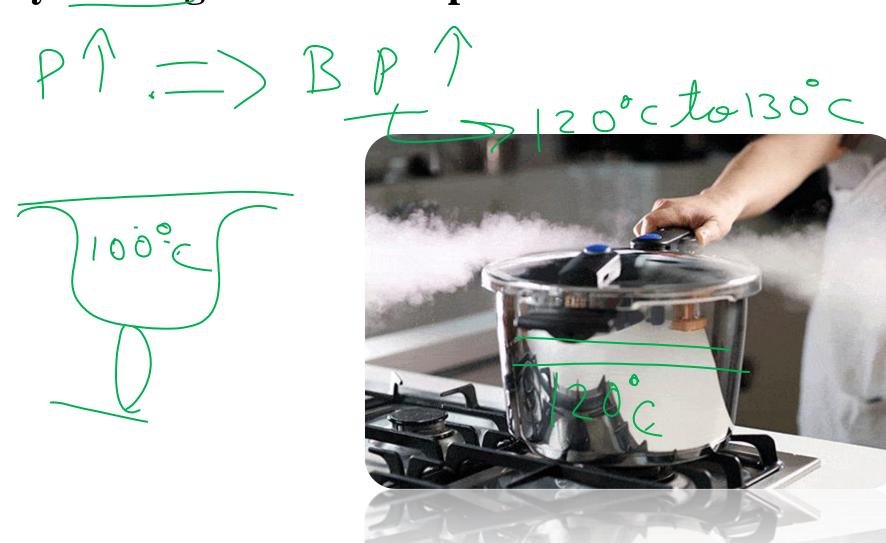


PV=nRT

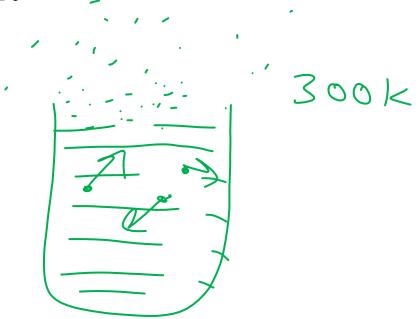
Q) A gas is kept in an enclosure. The pressure of the gas is reduced by the pumping out some gas. Will the temperature of the gas decrease by Charles' law? $\rightarrow N^{\sigma}$

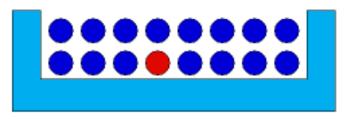


Q) Explain why cooking is faster in a pressure cooker.



Q) If the molecules were not allowed to collide among themselves, would you expect more evaporation or less evaporation?



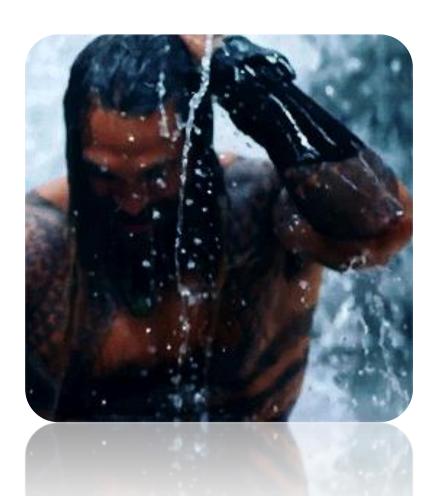


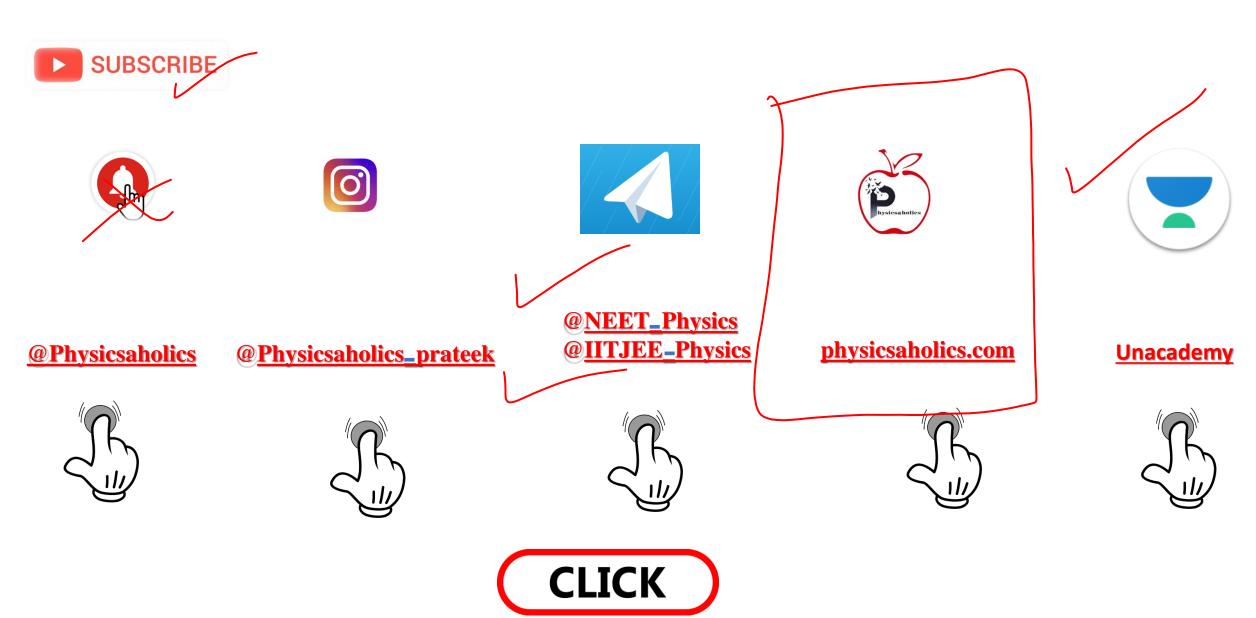
Q) Is it possible to boil water at room temperature, any 30°C? If we touch a flask containing water boiling at this temperature, will it be hot?



Q) When you come out of a river after a dip, you feel cold. Explain?







Links are also in the description of the video.

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