

**MODEL ACTIVITY TASKS**  
**CLASS – X**  
**PHYSICAL SCIENCE**

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**Write the answers to the following questions :**

1. Determine the unit of 'R' from dimensional analysis.
2. Mass of 112 mL of a certain gas is 0.22 g at STP. How many molecules are there in the sample of gas ? What is the molar mass of the gas ?
3. What are the main reasons for which real gases deviate from ideal behaviour ?
4. Why does the sky appear blue during the day ? Where should you place an object with respect to a convex lens if you intend to use the latter as a magnifying glass ?
5. Why are the elements in group 1 of periodic table called 'alkali metals' ? Mention the symbol of a post-uranium element.

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**Students will write answers to these activity tasks in subject specific exercise books at home, and submit the exercise books to respective subject teachers after schools reopen. Under no circumstance, students will go out of home.**