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## **Molecular Kinetic Theory**

## **Question Paper**

Level	Pre U
Subject	Physics
Exam Board	Cambridge International Examinations
Topic	Molecular Kinetic Theory
Booklet	Question Paper

Time Allowed: 2 minutes

Score: /1

Percentage: /100

**Grade Boundaries:** 

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1 A sample of oxygen is at a temperature of 57 °C. The average mass of an oxygen molecule is  $5.36 \times 10^{-26} \text{kg}.$ 

What is the root mean square speed of the molecules in this sample?

- **A**  $121 \,\mathrm{m\,s}^{-1}$
- $B 210 \, \text{m s}^{-1}$
- $C 291 \, \text{m s}^{-1}$
- $D 505 \, m \, s^{-1}$