

Answer on Question #55623-Physics-Other

The effect of draught in a simple pendulum experiment is to

- A. cause the oscillation to occur in multiple planes
- B. increase the frequency of the oscillation
- C. decrease the frequency of the oscillation
- D. increase the period of the oscillation

Answer

B. increase the frequency of the oscillation

The effect of draught is to increase the effective acceleration on the bob $g_{eff} = g + a > g$. It increases the frequency of the oscillation because

$$f \sim \sqrt{g_{eff}}.$$