

The longer swing

Four visual frames / use as a media plan or a check while generation finishes

01 / Predict



Which pendulum takes longer for one complete oscillation?
Predict first.

02 / Compare



At $g=9.81$: 1 m gives 2.006 s; 4 m gives 4.012 s. Show units.

03 / Explain

$$T = 2\pi\sqrt{L/g}$$

$$4 \times L \rightarrow 2 \times T$$

Four times the length gives twice the ideal period. Bob mass stays out of the equation.

04 / Question

Predict → Test → Revise

What would you hold fixed to test length? Explain one model limitation.