


- $$s = ut + \frac{1}{2}at^2$$

[2]

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vertical component of the velocity = m s^{-1} [1]

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- Diagram showing a slotted mass hanging from a pulley system. The mass is labeled "slotted mass".

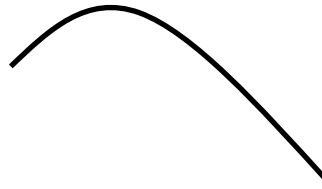


Fig. 1.2

1. Throughout the motion, the slotted mass is observed to be directly below the hot air balloon. Explain why this is so.

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.....[1]