Engagement probe

 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Ball Drop

[Falling Objects]



Imagine that a person in a tall building drops a ball. The ball is allowed to free-fall and does not hit any objects on the way down.

If the ball drops a total of 1 m during the first second, how far do you think the ball will drop during the second second? What about the third second? Describe your thinking.

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Exploration data table

|  |  |  |
| --- | --- | --- |
| Time (unit does not have to be one second) | Total distance traveled by object | Distance object traveled during unit of time |
| Trial #1 | Trial #2 | Trial #3 | Trial #1 | Trial #2 | Trial #3 |
| First unit of time |   |   |   |   |   |   |
| Second unit of time |   |   |   |   |   |   |
| Third unit of time |   |   |   |   |   |   |
| Fourth unit of time |   |   |   |   |   |   |
| Fifth unit of time |   |   |   |   |   |   |