#### Concept-Development Practice Page

4-1

(Circle the correct answer.) An astronaut in outer space away from gravitational or frictional forces
throws a rock. The rock will

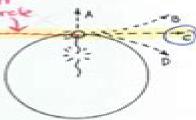
(gradually slow to a stop)

(continue moving in a straight line at constant speed)

The tock's tendency to do this is called

(inertia) (weight) (acceleration)

Exhibition of the



The sketch shows a top view of a rock being whirled at the end of a string (clockwise). If the string breaks, the path of the rock is

(A) (B) (C) (D)

Suppose you are standing in the aisle of a bus that travels
along a straight road at 100 km/h, and you hold a pencil still
above your head. Then relative to the bus, the velocity of the
pencil is 0 km/h, and relative to the road, the pencil has a
horizontal velocity of

(less than 100 km/h) (100 km/h) (more than 100 km/h)

Suppose you release the pencil. While it is dropping, and relative to the road, the pencil still has a horizontal velocity of

(less than 100 km/h) (100 km/h) (more than 100 km/h)

This means that the pencil will strike the floor at a place directly

(behind you) (lat your feet below your hand) in front of you)

Relative to you, the way the pencil drops

(is the same as if the bus were at rest)

(depends on the velocity of the bus)

How does this example illustrate the law of inertia?

The pencil's motion isn't changed (horizontally)
because there is no horizontal force - so it Keeps
on moving sideness even if gravity pulls it down

Conceptual PHYSICS

# **Mastering Physics Answer Key Chapter 5**

**ML Morrison** 

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