

CREST
Olympiads
#CRESTInnovator



CREST Science Olympiad (CSO) **Worksheet** *for* **Class 6**



Topic
Motion



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Worksheet on Motion

1. Charles wants to conduct an experiment to study oscillatory motion. Which of the following setups would be suitable?
 - a. Observing the motion of a ball rolling down a slope
 - b. Measuring the distance covered by a bicycle on a straight road
 - c. Investigating the swinging motion of a pendulum
 - d. Analysing the rotational motion of a spinning top
2. Which of the following is an example of non-uniform circular motion?
 - a. A spinning top slowing down gradually
 - b. A planet orbiting around the Sun
 - c. A car moving on a circular track at a constant speed
 - d. A pendulum swinging back and forth
3. Objects can exhibit multiple types of motion simultaneously. Which of the following examples illustrates this phenomenon?
 - a. A car moving in a straight line at a constant speed
 - b. Clothes spinning in a washing machine
 - c. The hands of a clock ticking
 - d. A fan rotating
4. A stretched rubber band is plucked and left to quiver. What type of motion is observed?
 - a. Revolutionary motion
 - b. Translatory motion
 - c. Curvilinear motion
 - d. Vibratory motion

5. Match the following types of motion with their corresponding examples.

Column I	Column II
1. Rectilinear motion	A) 
2. Curvilinear motion	B) 
3. Oscillatory motion	C) 
4. Rotational motion	D) 

- a. 1:C, 2:B, 3:D, 4:A
- b. 1:B, 2:C, 3:D, 4:A
- c. 1:A, 2:C, 3:B, 4:D
- d. 1:C, 2:D, 3:B, 4:A

Answer Key

1. c - A pendulum exhibits oscillatory motion as it swings back and forth. By observing and analysing the swinging motion of a pendulum the characteristics of oscillatory motion can be studied.
2. a - Non-uniform circular motion refers to a motion where the speed of the object changes over time. In the case of a spinning top, as it slows down gradually, its speed decreases, indicating a non-uniform circular motion.
3. a - A car moving in a straight line at a constant speed exhibits both translatory motion (straight line movement) and rotational motion (the wheels rotating). Therefore, it is an example of an object exhibiting multiple types of motion simultaneously.
4. d - When a stretched rubber band is plucked and left to quiver, it undergoes back-and-forth motion. This motion is known as vibratory motion, characterised by oscillations or vibrations.
5. b -
Rectilinear motion: Earth rotating on its axis
Curvilinear motion: Train moving on a straight railway track
Oscillatory motion: Car moving on a curved path
Rotational motion: Child on a swing moving back and forth

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