



CBSE: 730109  
School Code: 23605

# AYESHA ALI ACADEMY

A CBSE Senior Secondary Co-Educational School  
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## DEPARTEMENT OF SCIENCE

### Grade:-6<sup>th</sup> subject:- science worksheet

**Question 1 Case Based:-** During the school sports day, a student ran in a straight line from the starting point to the finish line, while another student participated in a spoon race moving in a zig-zag path. The PE teacher explained that although they covered the same distance, their types of motion were different.

Answer the following:

1. What type of motion is shown by the student running straight?
2. What type of motion is shown in the zig-zag path?
3. What is the difference between distance and displacement?
4. Why is it important to understand types of motion?

**Question 2 Case based:-** In a science exhibition, students showed a model of a pendulum. It moved back and forth at regular intervals. Another group showed a spinning top and explained its motion. The judges appreciated the creativity and understanding of different types of motion.

Answer the following:

1. What type of motion does a pendulum show?
2. What type of motion is seen in a spinning top?
3. Name one more example of periodic motion.
4. Why is it helpful to classify motions?

**Question 3 Activity Based :** Objects in Motion and at Rest

Observe your surroundings and list five objects that are moving and five objects that are at rest. Record your observations in the table below. Write a reason for classifying each object as either moving or at rest.

Objects in Motion	Justification	Objects at Rest	Justification

**Question 4 Activity Based:** Activity 2: Measuring Classroom Objects. Measure the length of the following classroom objects using a ruler or measuring tape. Before measuring, estimate the length of each object.

Object	Estimated Length (cm)	Measured Length (cm)	Difference (cm)
Notebook			
Pencil			
Eraser			
Water Bottle			

