

cbse-eng-07-sci-13-2-1

Slow or fast? When we walk on the road, a hurry vehicle may move even quick. Here, our motion is considered to be slow and the motion of a vehicle is considered to be fast. A bicycle may travel in a particular time in one direction but a bus can travel even more faster.

So, bicycle is said to be slow and bus is said to be fast. We can conclude that the distance traveled by an object in a given interval of time helps in deciding an object to travel fast or slow. In this example, both bicycle and jeep may start at one single point but after 10 minutes jeep would have traveled more distance than bicycle.

That is, jeep is moving faster than a bicycle. Therefore, we can say that faster vehicle has higher speed. Higher speed shows a larger distance covered in a given time.

Summary:

The **speed** of an object determines whether it is **fast or slow**.

- If a **vehicle moves quickly** compared to a **walking person**, the vehicle is considered **fast**, and the walking person is **slow**.
- A **bicycle** moves slower than a **bus**, so the bicycle is **slow**, and the bus is **fast**.
- The **distance traveled in a given time** helps us decide the **speed** of an object.
- If a **bicycle and a jeep** start from the same point, after **10 minutes**, the **jeep will have traveled farther**, proving it has **higher speed**.

Thus, an object that **covers more distance in less time** is said to be **faster** and has a **higher speed**.

Quiz:

1. What determines whether an object is fast or slow?

- a) The distance traveled in a given time ☒
- b) The color of the object ☐
- c) The weight of the object ☐
- d) The sound the object makes ☐

2. If a bus and a bicycle start at the same point, which will travel farther in 10 minutes?

- a) Bus ☒
- b) Bicycle ☐
- c) Both will travel the same distance ☐
- d) None, they will remain at the starting point ☐

3. What does a higher speed indicate?

- a) A larger distance covered in a given time ☒
- b) A smaller distance covered in a given time ☐
- c) No motion at all ☐
- d) Only heavy vehicles can have high speed ☐

4. Which of the following statements is true?

- a) A bicycle moves slower than a bus ☒
- b) A bus moves slower than a bicycle ☐
- c) A person walking moves faster than a vehicle ☐
- d) Speed does not depend on distance traveled ☐