REVISION WORKSHEET

1. During heavy exercise, lactic acid accumulates in muscles.Explain why this happens and how it is related to the difference between aerobic and anaerobic respiration.
2. Earthworms breathe through their skin.If an earthworm is coated with a layer of oil, it soon dies. Explain why this happens in terms of respiratory surfaces.
3. During vigorous exercise, the pulse rate of a person increases.Explain why this happens in terms of the transport of oxygen and nutrients in the body.
4. During summer, leaves of some plants wilt even though the soil has water. Explain this phenomenon in terms of transpiration and water transport.

5. A train travels at a uniform speed of 80 km/h. It takes 15 minutes to cover a certain distance. Find the distance travelled by the train. If the speed is reduced to half, how much time will it take to cover the same distance?
6. The speedometer of a scooter shows a constant reading of 40 km/h for 30 minutes. What type of motion is this? Calculate the distance covered.
7. The following table shows the motion of a motorbike on a straight road:

Time (sec)	0	5	10	15	20	25	30
Distance (m)	0	10	30	60	60	80	120

i. Plot a distance–time graph for the motion of the motorbike.

ii. From the graph, identify the intervals of time when the motorbike was:
a) moving with uniform speed
b) at rest
c) moving with non-uniform speed

iii. Calculate the speed of the motorbike during each interval.

iv. Using the graph, find the total distance covered and the total time taken. Then compute the average speed of the motorbike for the whole journey.