

NEW STANDARD ACADEMY

Semri Kothi Super Market, Raebareli

CLASS 9 DPP (Academy) 30-06-2025

PHYSICS

1. Which of the following has more inertia: (a) a rubber ball and a stone of the same size? (b) a bicycle and a train? (c) a five rupees coin and a one-rupee coin?
2. In the following example, try to identify the number of times the velocity of the ball changes
“A football player kicks a football to another player of his team who kicks the football towards the goal. The goalkeeper of the opposite team collects the football and kicks it towards a player of his own team”.
Also, identify the agent supplying the force in each case.
3. Explain why some of the leaves may get detached from a tree if we vigorously shake its branch.
4. Why do you fall in the forward direction when a moving bus brakes to a stop and fall backwards when it accelerates from rest?
5. If action is always equal to the reaction, explain how a horse can pull a cart.

CHEMISTRY

1. What is atomic mass unit and unified mass Are they same? What is the mass of 1 u in grams? Or Define the atomic mass unit
2. Define atomic mass. What does it describe that atomic mass of sodium is 23 u?
3. What is the meaning of nm? What is the relation between nm of the atom is usually expressed. and metre? Name the unit in which size (radius) of the atom is usually expressed
4. What is a pure substance
5. What is a saturated solution?

BIOLOGY

1. Define tissue give the example
2. What is a meristematic tissue
3. Give the difference between permanent and meristematic tissue

4. What is a chlorenchyma
5. Draw the labelled diagram of collenchyma

MATHS

1. Write Four rational numbers equivalent to $\frac{5}{8}$.
2. Find five rational numbers between 3 and 4.
3. Find four rational numbers between $\frac{3}{4}$ and $\frac{5}{6}$ Write the integers -11 and 7 in the form of $\frac{p}{q}$
4. Find one rational number between $\frac{4}{5}$ and $\frac{7}{13}$.
5. Represent $\sqrt{9.3}$ on the number line.
6. Find an irrational number between 5 and 6 is:
7. Express $\sqrt{5}$, $\sqrt{6}$ and $\sqrt{7}$ on a real number line.
8. Represent $2 + \sqrt{3}$ on the number line.
9. If $x = 0.232323\dots$ and $y = 0.22222\dots$ then $x + y = ?$
10. Express each of the following decimals in the form $\frac{p}{q}$:
(i) $1.\bar{2}$ (ii) $0.\overline{585}$