NEW STANDARD ACADEMY

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CLASS 9 (Academy) 28-04-2025

PHYSICS

1. Define scalar quantity Write 4- scalar quantity
2. Define vector quantity .Write 4 vector quantity.
3. Convert SI System to CGS system of following quantities-
   (a) Universal gravitational constant (G)
   (b) Density
4. What is unit of universal gravitational constant (G)?
5. Write the unit of Angular Momentum(l) .(L= m.v.r)

   Where m→ $mass$, v→ $velocity$ r→ Distance

CHEMISTRY

1. Why can we easily move our hand in air but not through a plank of wood?
2. We see the dust particles moving in sun light when it enters our room through the window, explain it.
3. Which fact shows that there is space between the particles of matter?
4. What is the scientific name of particles which make the matter?
5. What is the effect of temperature on rate of diffusion and why?

BIOLOGY

1. Give the four difference between prokaryot and eukaryot cell
2. Give the difference between plant cell and animal cell
3. What is protoplasm who given the term
4. What is difference between endocytosis and exocytosis
5. What happened if Any cell turgid cell kept in isotonic solution

MATH

1. Check whether 2 and -2 are zeroes of the polynomial x + 2
2. Check whether 0 and -3 are zeroes of the polynomial $x^2 + 3x$.
3. Show that 3 is a zero of the polynomial $x^3 - 8x^2 + 8x + 21$
4. Divide $x^3 + 4x^2 - 3x - 10$ by (x + 1) and verify the remainder obtained by Remainder theorem.
5. Find the quotient and remainder when $6x^4 + 11x^3 + 13x^2 - 3x + 25$ is divided by (3x + 4). Also check the remainder by using Remainder theorem.