

FBISE Class 9 Physics - Final Guess 2026

For Annual Exam | SLO Based New Pattern

Studybeesofficial

UNIT 1: PHYSICAL QUANTITIES AND MEASUREMENT [BASIC CHAPTER]

- Vernier Calipers and Screw Gauge - Least Count, Zero Error, How to use [MOST IMPORTANT - SHORT + LONG]
- Measuring Cylinder and Stop Watch

UNIT 2: KINEMATICS [MOST IMPORTANT]

- Types of Motion (Translatory, Rotatory, Vibratory)
- Graphical Proof of 3 Equations of Motion [CONFIRMED]

UNIT 3: DYNAMICS - I [MOST IMPORTANT UNIT OF PHYSICS]

- Newton's Three Laws of Motion + Daily Life Examples + Limitations [MOST IMPORTANT - LONG]
- Momentum - Relation of Force with Rate of Change of Momentum $F = \Delta P / \Delta t$ [MOST IMPORTANT]
- Law of Conservation of Momentum (Isolated System) [MOST IMPORTANT]
- Mass vs Weight - Difference + $W = mg$ Numerical + Weightlessness Condition [NUMERICAL IMPORTANT]
- Contact Forces (Friction, Tension) vs Non-contact Forces (Gravitational, Electric)

UNIT 4: TURNING EFFECT OF FORCES

- Center of Mass vs Center of Gravity - Definitions + Examples
- Conditions of Equilibrium + Types (Static/Dynamic) + States (Stable, Unstable, Neutral) [MOST IMPORTANT]
- What is Friction? Advantages and Disadvantages in Detail [MOST IMPORTANT]
- Methods to Reduce Friction - Ball Bearings, Lubricants, Polishing
- Centripetal Force - Formula $F = mv^2/r$ and Role

UNIT 5: GRAVITATION + PROPERTIES OF MATTER

- Newton's Law of Gravitation + Method to Find Mass of Earth [MOST IMPORTANT LONG]
- Hooke's Law - Statement + Graph + Stress/Strain
- Barometer vs Manometer - Working and Difference
- Pascal's Law + Applications - Hydraulic Lift and Hydraulic Brake [MOST IMPORTANT]
- Derivation of Liquid Pressure $P = \rho gh$ [MOST IMPORTANT]

UNIT 6: WORK AND ENERGY [NUMERICAL CHAPTER]

- Derivation of Kinetic Energy $E_k = 1/2 mv^2$ & Potential Energy $E_p = mgh$ [MOST IMPORTANT LONG]
- Law of Conservation of Energy + Energy Transformation Examples
- Renewable vs Non-renewable Energy Sources
- Power, Watt, Joule and Efficiency - Formulas + Numericals [MOST IMPORTANT]
- All Numericals of Chapter 6 - 1 Question Confirmed in Board

UNIT 7: THERMAL PROPERTIES

- Thermal Expansion and Types (Linear, Volume)
- Bimetallic Strip
- Factors Affecting Evaporation and How to Increase it

TOP 3 LONG QUESTIONS FOR 2nd ANNUAL:

1. Atwood Machine - Derivation
2. Resolution of Forces (Rectangular Components)
3. Motion of Artificial Satellite

□ TIPS FOR PHYSICS PAPER:

1. Numerical Tip: Chapter 3, 6, and 7 se 2-3 numerical lazmi aate hain. Formula $W=mg$, $F=ma$, $E_k=1/2mv^2$, $E_p=mgh$, $P=F/A$, $P=\rho gh$ yaad kar lo.
2. Long Question Trick: Agar question Atwood Machine ka na aaye to Resolution of Forces pakka aayega. Dono me se ek ki full tayari rakho.
3. Presentation: Har definition ke sath SI Unit aur Formula lazmi likho. Board me is se extra marks milte hain.
4. Most Important: Unit 3 and Unit 6 ko sab se zyada time do, in dono se 30% paper aata hai 2nd annual me.