

# MATHS & PHYSICS ONLINE

## UNIT 1

### Maths

Lessons & Questions: Algebraic Identities Lesson, Inequalities, Number Sets.

### Physics

Lessons & Questions: Vectors and Scalars, The SI system

## UNIT 2

### Maths

Lessons & Questions: Power of Integers, Absolute Value, Radicals, Ratio, Proportions, Percent Formula, Work Problem

Tests: Drill 1

### Physics

Lessons & Questions: Linear momentum, Kinematic concepts

## UNIT 3

### Maths

Lessons & Questions: Solid Geometry, Squares, Angles

### Physics

Lessons & Questions: The concept of force, TORQUE

## UNIT 4

### Maths

Lessons & Questions: Logarithms

Tests: Geometry Review Questions, Drill 2

### Physics

Lessons & Questions: Work, Energy and Power

Tests: Physics Review Questions, Physics Drill 1

## **UNIT 5**

### **Maths**

**Lessons & Questions:** Coordinate Geometry, Trigonometry

### **Physics**

**Lessons & Questions:** Density, Pressure, Archimedes Principle - Ideal Gases, Thermodynamics

## **UNIT 6**

### **Maths**

**Lessons & Questions:** Conics, Statistics

### **Physics**

**Lessons & Questions:** Electric Field, Magnetic Field

**Tests:** Electric Field Exercises

## **UNIT 7**

### **Maths**

**Lessons & Questions:** Probability Theory, Permutations – Combinations

**Tests:** Drill 3

### **Physics**

**Lessons & Questions:** Circular motion, Simple Harmonic Motion

## **UNIT 8**

### **Maths**

**Tests:** Revision Test 1, Revision Test 2

### **Physics**

**Tests:** Drill 2, Drill 3, Drill 4