



# *New Era High School and Senior Secondary*

**FOR THE BETTERMENT OF THE WORLD**

## **SYLLABUS FOR CLASS 8 ENTRANCE TEST**

### **ENGLISH**

1. Two unseen comprehension passages.
  2. One composition on any given topic.
- Grammar - identification of the parts of speech ( noun, verb, adjective, adverb, preposition, conjunction ), kinds of nouns, kinds of adjectives, tenses, agreement of the verb with the subject, active and passive voice, reported speech.

### **MATHEMATICS**

1. Operations of rational numbers.
2. Algebraic expression operations
3. Linear equations on one variable.
4. Conversion of measurements of length, mass, volume.
5. Indices (Exponents and radicals)
6. Average, Profit, Loss, Percentage, Simple interest
7. Ratio and proportional
8. Properties of parallel lines and it's applications
9. Pythagoras theorem
10. Area and perimeter of square, rectangle and circle
11. Congruent triangles
12. Angle sum property and exterior angle property of triangle.

### **SCIENCE**

1. Nutrition in plants
2. Nutrition in Animals
3. Fibre to fabric
4. Heat
5. Acids, Bases and Salts
6. Physical and chemical changes
7. Respiration in organisms
8. Transportation in plants and animals
9. Reproduction in Plants
10. Light
11. Motion and time.
12. Electric current and its effect.
13. Water.