



New Era High School and Senior Secondary

FOR THE BETTERMENT OF THE WORLD

SYLLABUS FOR CLASS 9 ENTRANCE TEST

AY 2025-26

ENGLISH

1. Two unseen comprehension passages.
2. One composition on any given topic.
3. Grammar - parts of speech, tenses, reported speech, articles, agreement of the verb with the subject, forming meaningful sentences from jumbled words.

MATHEMATICS

1. Rational Numbers
2. Linear equation in one variable
3. Understanding Quadrilaterals
4. Data Handling
5. Square and Square Roots
6. Cubes and Cube Roots
7. Comparing Quantities
8. Algebraic Expressions and Identities
9. Mensuration
10. Exponents and Powers
11. Direct and Inverse Proportions
12. Factorisation

SCIENCE

PHYSICS

1. Force & pressure : Force- A push or a Pull, forces due to interaction, force can change the state of motion; shape of an object, contact forces, non- contact forces, Pressure, pressure exerted by liquids and gases, atmospheric pressure.
2. Friction: Force of friction, factors affecting friction, friction a necessary evil, increasing & reducing friction, wheels reduce friction, fluid friction.
3. Sound: Sound produced by vibrating body ; by humans, sound needs a medium for propagation, we hear sound through our ears, loudness & pitch, audible & inaudible sounds,

noise & music, noise pollution.

4. Electric current & circuit: Conductors, insulators, chemical effects of electric current, electroplating.

5. Natural phenomena: Lightning, charging by rubbing, transfer of charges, lightning & safety, earthquakes.

6. Light: Laws of reflection, multiple images, sunlight, human eye & its care, Braille system.

CHEMISTRY

1. COAL AND PETROLEUM

a. Coal, Story of Coal, Coke, Coal Tar, Coal Gas

b. Petroleum

c. Natural Gas

d. Some Natural Resources are Limited

2. COMBUSTION AND FLAME

a. What is Combustion?

b. Types of Combustion

c. How do we Control Fire?

d. Flame, Structure of a Flame

e. What is a Fuel?

g. Fuel Efficiency

BIOLOGY

1. Crop production and Management

Agricultural practices, Basic Practices, Preparation of soil, Sowing, Manure and fertilizer, Irrigation, Protection from weeds, Harvesting, Storage.

2. Microorganisms: Friends and Foe

Microorganisms, Where do microorganisms live?, Microorganisms and us, Harmful microorganisms, Food preservation, Nitrogen fixation.

3. Reproduction in Animals Modes of Reproduction, Sexual Reproduction, Asexual Reproduction.

4. Reaching the Age of Adolescence: Changes at Puberty, Secondary Sexual characters, Role of Hormones in initiating Reproductive Function, reproductive phase of life in Humans, How is sex determined, Hormones other than Sex Hormones, Role of Hormones in the Life Cycle of Insects and Frogs, Reproductive Health.

5. Conservation of Plants and Animals.

NOTE: TEXT BOOKS FOR ALL SUBJECTS: N.C.E.R.T. OF CLASS VIII