

USWA COLLEGE ISLAMABAD

Syllabus of Science for Entry Test

Class 7th

Cellular Organization of Plants and Animals:

Cells, Animal Cell and Plant cell, Difference between Plant and Animal Cell, Activity 1.3, Cells form Tissues, Tissues form Organs, Organs form Organ Systems

Sense Organs:

The Eye, The Ear, The Nose.

Photosynthesis and Respiration in Plants:

Photosynthesis, Importance of Photosynthesis, Effects of different factors on Photosynthesis, Respiration in Plants

Environment and Interactions:

Environment, Biotic Components, Dependence of Organisms upon one another, Abiotic Component

Atoms, Molecules, Mixtures and Compounds:

Atoms and Molecules, Activity 5.1, Elements, Classification of Elements, Uses of some Common Elements, Compounds and Mixtures, Uses of Compounds and Mixtures, Air as a Mixture of Gases

Air:

Air and its Importance, Composition of Air, Oxygen, Carbon Dioxide, Rare Gases,

Solutions and Suspensions:

Solution and its Components, Water as a Universal Solvent, Dilute and Concentrated Solution, , Saturated and Unsaturated Solution, Some Uses of Solutions, Suspensions and their Uses

Energy and its forms:

Energy, Forms of Energy (Potential Energy, Chemical Energy, Stored Mechanical Energy, Gravitational Energy, Nuclear Energy), Kinetic Energy, Renewable Energy Sources, Hydro-Electric Energy, Wind Energy, Biogas, Solar Energy, Tidal Energy

Forces and Machines:

Wheel and Axle, Pulleys, Types of Pulleys, Gears, Uses of Gears

Properties of Light:

Transmission, Absorption and Reflection of Light, How does Reflection occur? Laws of Reflection, Types of Reflecting Surfaces, Images formed by Plane Mirror, Types of Mirrors, Image Formation by Concave Mirror, Image formation by Convex Mirror

11: Investigating Sounds:

How does Sound produce?, Sound as a Form of Energy, How does Sound travel?, How does Human Ear receive Sound?

Speed, Distance, Average Speed

Text Book :

Science for Class 6th (Punjab Text Book Board, Lahore)

USWA COLLEGE ISLAMABAD

Entrance Test

Class: 7th

Subject: Mathematics

Syllabus

The students should know

- Set, kinds of set, operation on sets (like union, intersection etc) and related symbols ($\in, \notin, \cup, \cap, \subseteq, \emptyset$ etc.)
- Fractions (their addition, subtraction, division and multiplication) and related symbols ($\leq, \geq, =, \neq$ etc.)
- Algebra (addition, subtraction, division and multiplication)
- Polynomials (Monomial, binomial, trinomial, like terms, unlike terms, variable, exponent, co-efficient, constant etc.)
- Integer, Operations on integers (e.g. addition, subtraction, division and multiplication)
- How to find percentage, average etc.
- Ratio, proportion.
- Lowest form of common fractions.
- How to find L.C.M and H.C.F
- How to find Area (square, triangle, rectangle etc.)
- How to find the area and volume of cube and cuboid.
- How to bisect Line / side and angle.
- How to construct different angles with the help of compass.
- How to construct triangle.

NOTE: Students are advised to consult Punjab Text Book of Class VI for Entrance Test

اسوہ کالج اسلام آباد

سلیبس اردو (انٹری ٹیسٹ جماعت ہفتم)

حصہ صرف

1- قواعد (گرامر)

2- واحد، جمع

3- تذکیر و تانیث

4- متضاد / مترادف

5- خط

6- کہانی

مجوزہ درسی کتاب: قواعد و انشاء (پنجاب ٹیکسٹ بک بورڈ لاہور)

USWA COLLEGE ISLAMABAD

Class 7th Entry Test Syllabus English

01. Composition:

- Story Writing
- School Applications

02. Comprehension:

- Paragraph with MCQ's

03. Grammar:

- Parts of Speech
- Tenses
- Punctuation
- Active/passive

04. Vocabulary:

- Singular & Plural
- Gender
- Spellings
- Synonymous & Antonymous

05. Translation: (Individual Sentences)

- English to Urdu
- Urdu to English