

1th Grade

Syllabus

**A brief information
about Biology
topics each
semester**

**ACADEMIC YEAR
2020-2021**



**Cambridge Assessment
International Education**

Cambridge International School

**Discas
Mileus
Vivere
Vitam**

KBS Biology Dept



7TH GRADE SYLLABUS

1st Semester



1. INTRODUCTION TO SCIENCE

- 1.1. Scientific thinking & scientific method
- 1.2. Laboratory tools & safety



2. LIVING THINGS

- 2.1. Seven characteristics of living things
- 2.2. Major plant organs
- 2.3. Major human organs
- 2.4. Example of organ system : skeletal system
- 2.5. Cells

3. MICROORGANISMS & DISEASE

- 3.1. Characters of bacteria, fungi, virus
- 3.2. Observing microorganisms
- 3.3. Roles of microorganisms



7TH GRADE SYLLABUS

2nd Semester



4. PUTTING THINGS INTO GROUP

- 4.1. Classifying organisms
- 4.2. Species concept
- 4.3. Species variation
- 4.4. Dichotomus key



5. HABITAT & ENVIRONMENT

- 5.1. Habitat & Organisms
- 5.2. Adaptations
- 5.3. Food chain & energy flow
- 5.4. Human impact
- 5.5. Energy resources

6. OBTAINING FOOD

- 6.1. Photosynthesis
- 6.2. Nutrients & balanced diet
- 6.3. Human digestive system
- 6.4. Chemical digestion



7. RESPIRATION

- 7.1. Human respiratory system

8th Grade

Syllabus

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8TH GRADE SYLLABUS

1st Semester



1. CIRCULATORY SYSTEM

- 1.1. Major parts of circulatory system
- 1.2. The Heart
- 1.3. Blood Vessels
- 1.4. Pulse Rate
- 1.5. Blood
- 1.6. Circulatory System Disorders



2. REPRODUCTION & GROWTH

- 2.1. Structure & function of reproductive organs
- 2.2. Menstrual cycle - ovulation, uterus lining thickening
- 2.3. Fertilization, cell division, implantation, placenta
- 2.4. Effect of cigarette, alcohol & drugs on foetus

3. GROWTH & HEALTH

- 3.1. Child growth chart
- 3.2. Changes during puberty
- 3.3. Unbalanced diet
- 3.4. Drugs
- 3.5. Disease prevalence



8TH GRADE SYLLABUS

2nd Semester



4. SEXUAL REPRODUCTION IN FLOWERING PLANTS


- 4.1. Structure & function of flower
- 4.2. Mode of pollination
- 4.3. Fertilization & seeds
- 4.4. Seed dispersals
- 4.6. Big picture of sexual reproduction in flowering plant



5. PHOTOSYNTHESIS & PLANT GROWTH

- 5.1. Photosynthesis
- 5.2. Effect of light on plant growth
- 5.3. Water, mineral & nutrient requirements
- 5.4. Transport of water, mineral salts

6. ECOLOGY

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- 6.1. Constructing identification key
 - 6.2. Food chain, food web, energy flow, symbiosis
 - 6.3. Decomposers
 - 6.4. Adaptation to habitat
 - 6.5. Inherited characteristics
 - 6.6. Selective breeding
 - 6.7. Natural selection, scientific methods



7. ENERGY CRISIS & HUMAN INFLUENCES

- 7.1. Population graph
- 7.2. Human influences on habitat
- 7.3. Clean water resources
- 7.4. World's energy needs & crisis
- 7.5. Non-renewable fuels & atmospheric pollution
- 7.6. Renewable fuels & energy resources
- 7.7. Problem & most used energy resources