

# Westwood Science Regular Program

## Teachers:

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## How often do I have Science?

- Over your 9 day school cycle, you have science class four times
- Classes are 75 minutes long.

## What materials do I need?

- One binder(1.5- 2 inch)
- Color markers or color pencils
- a 30 cm ruler
- Kit box with pens and pencils
- Calculator (used sometimes)
- a glue stick

## Textbooks:

- Students use the *Eureka Science and Technology Secondary Cycle One* textbook.
- Textbook information is supplemented with additional information researched and put together by Westwood teaching staff.



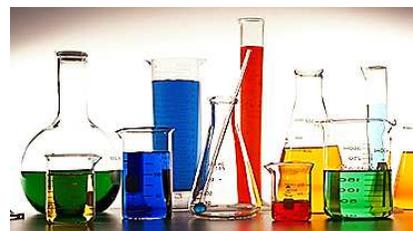
## How much homework do I have?

- On average, 20-30 minutes per class.
- If no written work has been assigned, you are expected to review your class notes and assigned readings.
- Assignments are due at the **START** of class on the **assigned due date**.

## What if I'm absent?

- You are responsible for making up any work missed during an absence.
- Assignments are due on the **first day of your return** to class.
- **Tests** - arrangements must be made with the teacher to make up missed tests during afterschool or at lunch.
- **Labs** - When it is not possible to make up a lab, you will be given the data collected during the lab. **You are responsible** for completing the required questions, calculations, graphs, etc., and for submitting your work at the start of the next class.

# Course Content



## a) The Material World

Examples of ideas studied: characteristic properties of matter, mass, volume, density, states of matter, physical and chemical changes, mixtures, solutions, separation of mixtures, the Periodic Table, atoms, elements, molecules

## b) The Living World

Examples of ideas studied: habitat, adaptation, species, population, classification, reproduction in plants and animals, stages of human development, plant and animal cells, photosynthesis



## c) The Earth and Space

Examples of ideas studied: The structure of the Earth, lithosphere, hydrosphere, atmosphere, types of rocks, relief, tectonic plates, volcanoes, earthquakes, erosion, natural energy sources, renewable and non-renewable energy sources, universal gravitation, solar system, cycles of day and night, seasons



## d) The Technological World

Examples of ideas studied: types of motion, forces, simple machines, transformation of energy, design plan, scientific drawings, energy transformations.



## Evaluation

Areas Of Evaluation	Description	Types of Evaluations (Such as...)	Final Evaluations/ Exams
<p><b>Practical 40%</b> (e.g. lab experiments)</p> <p><b>Theory 60%</b> (e.g. research projects, quizzes, tests)</p>	<p><b>Students will be evaluated on their ability to:</b></p> <p>a) seek answers or solutions to scientific or technological problems</p> <p>b) make the most of their knowledge of science and technology</p> <p>c) communicate in the language used in science and technology</p>	<p>Quizzes</p> <p>Projects</p> <p>Presentations</p> <p>Experimental Activities</p> <p>Technological Design Activities</p>	<p><b>Secondary 1:</b> No Final exam</p> <p><b>Secondary 2:</b> 1) In-class practical lab exam <b>May 2017</b> 2) Board theory exam <b>June 2017</b></p>
<p><b>Value of each of the 3 terms in the year: term 1 : 20%, term 2: 20%, term 3: 60%</b></p>			

# How do I Succeed?

## How do I need to work and behave in class in order to succeed?

Ask your self these questions – if you can answer “yes” to many of them, you’re on your way.

1. Do you have fun discovering new things?
2. Are you on time and prepared for class? (materials, homework, ready to work, awake!)
3. Do you show respect towards your classmates, teachers, and other people who come into the classroom?
4. Do you work cooperatively with others?
5. Are you able to work independently?
6. Do you help out others in the class?
7. Are you attentive in class?
8. Are you on task?
9. Do you ask questions?
10. Do I come for extra help when I am behind or don't understand? \*



**\* Extra help can be arranged with the teacher at lunch hour or after school. After school tutorials (2:30-3:45) will be offered as needed (before big tests or at the request of students or parents)**

## What skills will I learn and use?

- ❖ Asking questions
- ❖ Hypothesizing (thinking about what will happen if...)
- ❖ Identifying variables (things that affect your experiment)
- ❖ Designing an investigation (writing a scientific procedure and testing it)
- ❖ Making observations
- ❖ Recording observations in data tables
- ❖ Creating graphs
- ❖ Analyzing your experimental results
- ❖ Reaching a conclusion
- ❖ Creating scientific diagrams
- ❖ Designing and creating technological objects (Engineering)
- ❖ Writing summaries and reports
- ❖ Making oral and computer based presentations
- ❖ Using scientific equipment