



<b>Enseignement secondaire</b>		
<b>Classes internationales</b>		
	<b>Régime anglophone</b>	
<b>Physique</b>		
<b>Programme</b>		
<b>7IEC</b>		

Leçons hebdomadaires: 2
Langue véhiculaire: anglais
Nombre minimal de devoirs par trimestre: 2

## Theory

	<b>Topic</b>	<b>Subtopics</b>	<b>Contents</b>
<b>1</b>	<b>Current electricity</b>	Switches and current  Series and parallel circuits  Voltage  Using electricity	<ul style="list-style-type: none"><li>- Explain how switches work</li><li>- Describe what happens when the number of bulbs in the circuit is changed</li><li>- Describe what a current is and how it is measured</li><li>- Distinguish between series and parallel circuits</li><li>- Describe how changing the number or type of components in a circuit affects the current</li><li>- Describe how a voltmeter is used</li><li>- Explain the influence of the voltage on the current</li><li>- Safety precautions to be followed when using electricity</li><li>- Explain how fuses and circuit breakers work</li></ul>
<b>2</b>	<b>Sound</b>	Sound production  Sound transmission  Sound detection  Ultrasound	<ul style="list-style-type: none"><li>- How sound is produced</li><li>- Explain the link between frequency and pitch</li><li>- Explain the need of a material medium for sound to travel</li><li>- How to detect sound: ear, microphone</li><li>- Hearing ranges of human and animals</li><li>- Using sound: ultrasound, sonar and echolocation</li><li>- Effects of noise on humans and animals</li></ul>





## General skills:

1. Use of command terms
2. Summarize key points in a text
3. Use of tables
4. Writing a method
5. Charts and graphs (see chemistry and physics)
  - Present information as bar charts or scatter graphs
  - Identify relationships using scatter graphs ( proportionality )
  - Analyze and describe trends of a graph
6. Modelling in science: how to use them in science and testing them
7. Use suitable units

## Practical work Suggestions

The practical activities are an important an integral part of the course.

	<u>Topic</u>	<u>Contents</u>
	<b>Scientific method</b>	<ul style="list-style-type: none"><li>- State the purpose of and the common steps in the scientific method</li><li>- Describe the role of scientific questions in the scientific method</li><li>- Identify scientific, non-scientific and ethical questions</li><li>- Describe and use the convention for investigation reports (Aim and research question, hypothesis, method, apparatus, results, conclusion, evaluation)</li><li>- Explain what a fair test is and make fair comparisons of results</li></ul>
1	<b>Current Electricity</b>	<ul style="list-style-type: none"><li>- Series and parallel circuits with switches</li><li>- Series and parallel circuits with lamps</li><li>- Conductors and insulators (solids and liquids)</li></ul>
2	<b>Sound</b>	<ul style="list-style-type: none"><li>- Sound sources</li></ul>
3	<b>Energy and energy changes</b>	<ul style="list-style-type: none"><li>- Energy in different foods</li></ul>
4	<b>Forces and pressure</b>	<ul style="list-style-type: none"><li>- Measure masses, weight and forces</li><li>- Investigate pressure on solids</li></ul>