

# SBC Sciences

SBC at Wellington College



## Overview

DURATION: 2 Weeks

LESSONS: 2 x 90 minutes per day; 5 days a week

LEVEL REQUIRED: Intermediate and above.

SUITABLE FOR: Students interested in pursuing future study in Physics, Biology, Chemistry, Mathematics or Life Sciences.

SBC Science focuses on developing an understanding of both scientific concepts and methodology, as well as building an appreciation of the practical ways that scientific advancements influence our world. Focusing equally on Chemistry, Biology and Physics, the course covers scientific themes such as the complex dynamic system of the Earth's climate, space exploration and medical advancements. By looking at these topics from a variety of critical perspectives students will improve their research, analytical and problem solving skills and develop their scientific minds

## Course Objectives

- To gain a better understanding of the natural world, through the perspective of the core sciences: Chemistry, Physics and Biology
- To debate and reflect on how Natural Sciences can be used to solve 21<sup>st</sup> century problems
- To nurture skills in analytical reasoning, investigation and critical evaluation
- To develop effective presentation skills to articulate thoughts and findings clearly
- To improve all-round confidence in using English communicatively

## Course Schedule

| Week 1  | Week 2   |
|---|--|
| 1.1 Introductions<br>1.2 Science in Action  | 6.1 Biology (2): Evolution and Behaviour<br>6.2 Project: 21 <sup>st</sup> Century Problems & Solutions |
| 2.1 Biology (1): Cells and Physiology<br>2.2 Project: The Intersectionality of Sciences | 7.1 Physics (2): The Earth and Space<br>7.2 Project: 21 <sup>st</sup> Century Problems & Solutions     |
| 3.1 Physics (1): Elemental Structures<br>3.2 Project: The Intersectionality of Sciences | 8.1 Chemistry (2): Pharmacology<br>8.2 Project: 21 <sup>st</sup> Century Problems & Solutions          |
| 4.1 Chemistry (1): Combining Elements<br>4.2 Project: The Intersectionality of Sciences | 9.1 Earth Sciences<br>9.2 Project: 21 <sup>st</sup> Century Problems & Solutions                       |
| 5.1 Time to Shine<br>5.2 Review   | 10.1 Time to Shine<br>10.2 Review  |

*Please note the above is given as an example, and is subject to change.*