

Dutch Science Curriculum	OCLS Science
Chemistry	
<p><i>Core-concepts for years 1/2/3 for HAVO/VWO:</i></p> <ol style="list-style-type: none"> <li>1. Macro-, and micro- thinking</li> <li>2. The 'mol' as a chemical measure</li> <li>3. Reactivity</li> <li>4. Consideration / observation of energy</li> <li>5. Systematic thinking</li> </ol>	<p>Chapters 14 and 15</p> <p>Chapter 18</p> <p>Chapters 17, 18, 19, 20, 22</p> <p>Chapters 14, 21</p>
Physics	
<p><i>Core-concepts for years 1/2/3 for HAVO/VWO:</i></p> <ol style="list-style-type: none"> <li>1. Matter</li> <li>2. Energy</li> <li>3) Interaction/correlation</li> <li>4. Space (includes: forces within the space)</li> <li>5. Knowledge acquisition</li> </ol>	<p>Chapters 25, 31, 35, 36</p> <p>Chapter 27</p> <p>Chapters 26, 28, 29, 30</p>
Biology	

<p><i>Core-Concepts for years 1/2/3 of HAVO/VWO:</i></p> <ol style="list-style-type: none"> <li>1. Unity/uniformity and variety/diversity</li> <li>2. Conservation/preservation and development</li> <li>3. Interaction within and between biological entities</li> <li>4. Reproduction and evolution</li> <li>5. Dynamic balance (including: health)</li> </ol>	<p>Chapters 1, 2</p> <p>Chapter 12</p> <p>Chapters 9, 10, 11</p> <p>Chapters 3, 4, 5, 6, 7, 8, 13</p>
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### OCLS Science Contents

Study skills

Chapter 1 Classification and characteristics of living things

Chapter 2 Cells

Chapter 3 Movement of substances into and out of cells

Chapter 4 Human nutrition

Chapter 5 Plant nutrition and transport

Chapter 6 Transport in humans

Chapter 7 Breathing and respiration

Chapter 8 Nerves, hormones, and homeostasis

Chapter 9 Reproduction in animals

Chapter 10 Reproduction in plants

Chapter 11 Inheritance and variation

Chapter 12 Ecosystems and the environment

Chapter 13 Nutrient cycles

Chapter 14 The nature of matter

Chapter 15 Atoms, elements and compounds

Chapter 16 Experimental techniques

Chapter 17 The Periodic Table

Chapter 18 Stoichiometry

Chapter 19 Bonding

Chapter 20 Metals: their properties, extraction and uses

Chapter 21 Chemical reactions

Chapter 22 Rates of reaction

Chapter 23 Acids and bases

Chapter 24 Organic chemistry

Chapter 25 Speed, distance and acceleration

Chapter 26 Forces

Chapter 27 Energy

Chapter 28 Waves

Chapter 29 The electromagnetic spectrum

Chapter 30 Sound and ultrasound

Chapter 31 Radioactivity

Chapter 32 Electric circuits

Chapter 33 Electricity in the home

Chapter 34 Generating electricity

Chapter 35 Magnetism

Chapter 36 Electric charge

Chapter 37 The Earth and the universe

Chapter 38 How to draw a graph or chart

Glossary