

Processing Chemical Reactions

Prince Edward Island	
Grade 5	
Properties and Changes in Materials	
<u>Specific Curriculum Outcomes:</u>	<p>300-10 identify properties such as texture, hardness, colour, buoyancy, and solubility that allow materials to be distinguished from one another</p> <p>300-9 group materials as solids, liquids, or gases, based on their properties</p> <p>300-12 identify the source of the materials found in an object and describe the changes to the natural materials required to make the object</p>
Grade 7	
Mixtures and Solutions	
<u>Specific Curriculum Outcomes:</u>	<p>PS1 Distinguish between pure substances and mixtures using the particle theory of matter.</p> <p>PS3 Design and conduct out experiments to explore methods of separating mixtures and solutions and extend the impact of those methods on society and the environment.</p>
Grade 9	
Science	
<u>Specific Curriculum Outcomes:</u>	<p>PK 5 Conduct investigations safely to collect data that can be used to answer questions or learn scientific concepts.</p> <p>CK 2.2 Examine patterns in the composition of ionic and molecular compounds</p> <p style="padding-left: 20px;">b. recognize that chemical change is the formation of new substances by rearrangements of atoms</p> <p>DP 3 Reflect on personal characteristics, skills, and opportunities that connect to a career in science.</p>

Grade 10

Science

Specific Curriculum

Outcomes:

PK 5 Perform investigations that examine the microscopic structure of cells, chemical reactivity, and the relationship between energy, forces, and matter

CK 2.1 predict the products of chemical reactions

a. use the following vocabulary appropriately: balanced reaction, chemical equation, chemical formula, chemical/physical property, chemical/physical change, coefficient, product, reactant, subscript, yield sign

b. identify the reactants and products in a chemical equation

d. associate the occurrence of a new colour, a gas (bubbles or odor), or a solid (precipitate) during a chemical reaction with the presence of a new substance

i. apply the law of conservation of mass to write balanced chemical equations

DP 2 Demonstrate skills and characteristics necessary for career pathways related to science, technology, engineering, or math.