



a WOW Lab

BLUEPRINT

The Chemical (KNO_3)-How

Achievements and Competencies

Learning Outcomes

Grades 10-12
From structures to properties

Achievements and Competencies are based on the Common Framework of Science Learning Outcomes (K-12) set by the Canadian Council of Ministers of Education (1997).

Specific Expectations

Grade 11 & 12

CHEMISTRY

From structures to properties

214-1 Describe and apply classification systems and nomenclatures used in the sciences (e.g., apply IUPAC nomenclature for ionic compounds).

Potassium nitrate (KNO_3) is a versatile compound used in many things, from food preparation to fireworks. In this activity, students will use KNO_3 to burn patterns into paper without the use of a flame. They will be able to apply IUPAC nomenclature for ionic compounds to properly identify potassium nitrate.

321-7 Identify and describe the properties of ionic and molecular compounds and metallic substances.

Through the use of potassium nitrate (KNO_3) in *The Chemical (KNO_3)-How* activity, the students will be able to identify and describe the properties of the ionic compound potassium nitrate (KNO_3).