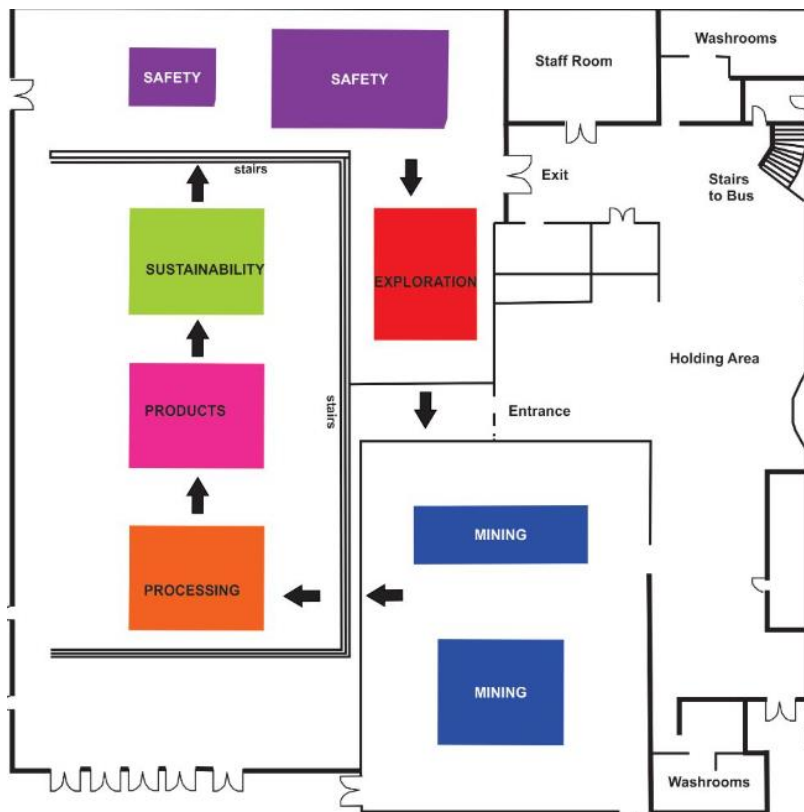




Teacher Connections

What is the Saskatchewan Mining Association’s “MAP”?

MAP stands for **Minerals and Products**. It is a Pavilion-Based event with curriculum correlated, hands-on activities for students. There are 6 Pavilions - Exploration, Mining, Processing, Products, Sustainability, and Safety. Careers are linked throughout. Activities and layout may change depending on location, materials and volunteers.



Approximately **360 students** participate in MAP and are accommodated in half-day sessions. Upon arrival, students are divided into groups of approx. 20. Each group has a designated **Group Guide** as they rotate approximately every 15 min.

With the help of **over 40 volunteers**, students answer questions about the mining industry and careers in their **MAP Field Book** as they experience hands-on activities and interactive demonstrations. Students show their completed book to enter a **prize draw**.

Teachers will be provided with a resource bag full of swag and materials. Curriculum correlated lesson plans have been developed for the activities at each pavilion.

Discover SMA’s Education Outreach program at:
<http://saskmining.ca/Mines-in-Saskatchewan/Education-Outreach>

All of SMA’s resources are free!
<https://www.teacherspayteachers.com/Store/Saskatchewan-Mining-Association>




















INTERACTIVE MINING CYCLE • Over 30 Hands-on activities in 6 pavilions


• Exploration • Mining • Processing • Products • Sustainability • Safety

Grade 7 Curricular Connections

	Science					Social Studies		Careers	Health
	EC7.2	MS7.1	MS7.2	MS7.3	IE7.4	RW7.2	RW7.3	CC7.1	USC7.3
Drill Core Exploration									
Playdough Exploration									
Mineral Identify									
Open Pit Mining									
Solution Mining									
Cookie Mining									
Magnetic Processing									
Grain Size Processing									
Gravity Processing									
Floatation Processing									
Centrifuge Processing									
Fore! Golf Products									
Computer Products									
Bike Product									
SK Resource Match									



	Science					Social Studies		Careers	Health
	EC7.2	MS7.1	MS7.2	MS7.3	IE7.4	RW7.2	RW7.3	CC7.1	USC7.3
SK Resource Map Shuffle									
Reclamation Activity									
Decision Making									
PPE Mine Try On									
Mine Rescue Relay									
Radiation Safety									
Fire Safety									

Science	Social Studies
EC7.2 - Identify locations and processes used to extract Earth's geological resources and examine the impacts of those locations and processes on society and the environment.	RW7.2 - Investigate the influence of resources upon economic conditions of peoples in circumpolar and Pacific Rim countries.
MS7.1 – Distinguish between pure substances and mixtures (mechanical mixtures and solutions) using the particle model of matter.	RW7.3 - Assess the ecological stewardship of economies of Canada and the circumpolar and Pacific Rim countries.
MS7.2 - Investigate methods of separating the components of mechanical mixtures and solutions, and analyze the impact of industrial and agricultural applications of those methods.	Career Education
	CC7.1 - Reflect on and express insights about how knowledge and skills learned in school transfer to one's future life and work.
MS7.3 - Investigate the properties and applications of solutions, including solubility and concentration.	Health
	USC7.3 - Commit to personal safety practices while acquiring basic first aid knowledge and skills.
IE7.4 - Analyze how ecosystems change in response to natural and human influences, and propose actions to reduce the impact of human behaviour on a specific ecosystem.	

Grade 4 Connections	Grade 5 Connections	Grade 6 Connections	Grade 8 Connections
<p>RM4.1 - Investigate physical properties of rocks and minerals, including those found in the local environment.</p> <p>RM4.2- Assess how human uses of rocks and minerals impact self, society, and the environment.</p> <p>HC4.3 - Assess the effects of natural and human activities on habitats and communities, and propose actions to maintain or restore habitats.</p>	<p>HB5.1 - Analyze personal and societal requirements for, and the impact of, maintaining a healthy human body.</p> <p>FM5.1 - Analyze the effects of gravitational, magnetic, and mechanical forces, including friction, on the movement of objects.</p> <p>FM5.3 - Assess how natural and man-made forces and simple machines affect individuals, society, and the environment.</p>	<p>DL6.1 - Recognize, describe, and appreciate the diversity of living things in local and other ecosystems, and explore related careers.</p> <p>EL6.1 - Assess personal, societal, economic, and environmental impacts of electricity use in Saskatchewan and propose actions to reduce those impacts.</p>	<p>FD8.1 - Investigate and represent the density of solids, liquids, and gases based on the particle theory of matter.</p> <p>FD8.4 - Identify and interpret the scientific principles underlying the functioning of natural and constructed fluid systems.</p> <p>WS8.1 - Analyze the impact of natural and human-induced changes to the characteristics and distribution of water in local, regional, and national ecosystems.</p>
<p>RW4.1 - Analyze the strategies Saskatchewan people have developed to meet the challenges presented by the natural environment.</p> <p>RW4.3 - Assess the impact of Saskatchewan resources and technological innovations on the provincial, national, and global communities.</p>	<p>RW5.1 - Explain the importance of sustainable management of the environment to Canada's future.</p> <p>RW5.2 - Hypothesize about economic changes that Canada may experience in the future.</p>	<p>RW6.1 - Examine and analyze factors that contribute to quality of life, including material and non-material factors.</p> <p>RW6.2 - Contribute to initiating and guiding change in local and global communities regarding environmental, social, and economic sustainability.</p>	<p>RW8.2 - Assess the implications of personal consumer choices.</p> <p>RW8.3 - Critique the approaches of Canada and Canadians to environmental stewardship and sustainability.</p>
<p>USC4.4 - Determine basic personal responsibility for safety and protection in various environments/situations.</p>		<p>USC6.6 - Develop and demonstrate the knowledge, skills, and personal standards necessary for establishing and supporting safe practices and environments related to various community activities.</p> <p>CC6.1 - Investigate various aspects of careers and their requirements.</p>	<p>LW8.1 - Compare skills such as Essential Skills and Employability Skills and examine how an individual's skills may influence possible future occupational choices.</p> <p>CG8.1 - Analyze one's own self-image including personal skills, interests, and behaviours and their influences on one's life and work.</p>