

Rocks, Minerals and Fossils

DEAR TEACHER:

Thank you for allowing us to enrich your students' education with this program. We hope that our combined efforts will provide a worthwhile, enjoyable and 'smooth' Museum visit.

Please note:

Enter your bookings in your Daybook (forgotten bookings are disappointing).

Class size is 30 students.

Double check your confirmation ticket for accuracy and inform us of any changes immediately.

Cancellation policy:

7 days notice must be provided to avoid being charged for your program.

Call us at 988-0626 if you have any students with special needs in your class or if you prefer to have particular areas of the program emphasized.

Divide your class into two groups before arriving. One supervisor per group is required to follow behind the students.

Arrive early out of courtesy to our volunteers and for an optimal experience.

Have the admission fees collected before arriving and make the payment to either the Museum box office (located on main level) before the program's starting time. Please make cheques payable to The Manitoba Museum.

Class control remains the teacher's responsibility.

Lunches: A number of areas in the Museum complex or the surrounding area are suitable for lunch. Spaces cannot be booked in advance. For more information phone 988-0626

Jackets and lunches can be stored in pull-out racks located near the classrooms on the lower level of the Museum. Valuables should be left at home.

Call 988-0626 or write us if we can help you develop specific Museum activities or if you have questions, suggestions or concerns.

We appreciate hearing from the students and often display their posters and drawings if you would like to share them with us.

Enjoy your visit!

THE PROGRAM: Grade 4 (1 hour)

Students study hands-on and gallery specimens of rocks, minerals and fossils to learn about the geology of Manitoba. In addition, characteristics of rocks and properties of minerals are examined in relation to their practical applications.

PROGRAM OUTLINE:

Students are divided into two groups for a 1 hour tour of rock, mineral and fossil-related exhibits. The tour is complimented by hands-on studies of specimens related to the exhibits.

PRE-VISIT SUGGESTIONS:

1. Duplicate the word search and have the students look for the listed words. Discuss any new vocabulary words.
2. Develop vocabulary used to describe the properties of minerals and characteristics of rocks.
3. Bring rock samples to school and attempt to classify and identify them.
4. Name common household goods that we use everyday and which began as a rock to illustrate the importance of rocks and minerals in our lives (e.g., jewelry, dishes, cutlery, bricks, cement, glass, cars, t.v.'s).

FOLLOW-UP ACTIVITIES:

1. To demonstrate crystals and crystal growth, grow salt crystals. Stir 3 tablespoons of salt into 1 cup of warm water until the salt is completely dissolved. Pour this solution into a shallow pan. Set it in a warm place so that the water will evaporate. After a few days check the edges of the pan for small white crystals of salt. Look at the crystals with a magnifying glass. They should be shaped like cubes because salt (Halite) belongs to the Cubic or Isometric Crystal System. Alum crystals are also easy to grow and the crystals will be bigger.
2. Visit Little Mountain Park and Stonewall Quarry Park where you can find fossils.
3. Look for fossils in tyndallstone on local buildings such as the Museum, Art Gallery, Winnipeg City Hall, Legislative Building, etc.

SCHOOL PROGRAMS SPONSORED BY





ROCKS, MINERALS AND FOSSILS

E	R	A	E	A	M	C	G	E	R	O	S	I	O	N
T	X	Q	P	Y	L	H	R	N	M	T	T	H	L	A
S	E	T	A	C	A	A	A	O	Z	R	R	M	A	R
S	P	X	I	W	V	R	N	T	T	O	E	N	R	F
M	U	T	T	N	A	A	I	S	R	T	A	U	E	Y
Z	A	O	I	U	C	C	T	E	A	M	K	L	N	T
V	S	G	E	M	R	T	E	M	U	U	D	A	I	R
Q	Q	A	M	N	A	E	O	I	Q	S	C	F	M	E
M	S	I	N	A	G	R	O	L	P	P	H	O	L	P
U	C	T	S	D	P	I	B	A	Z	Y	E	S	U	O
A	K	H	E	H	S	S	R	L	H	G	M	S	S	R
P	Y	R	I	T	E	T	L	O	E	N	I	I	T	P
C	K	C	O	R	V	I	O	C	E	U	C	L	E	B
R	S	C	R	A	T	C	H	N	T	H	A	Y	R	H
Y	R	A	T	N	E	M	I	D	E	S	L	L	B	M

CHARACTERISTIC
CHEMICAL
ERA
EROSION
EXTINCT
FELDSPAR
FOSSIL
GRANITE
GYPSUM
IGNEOUS

LAVA
LIMESTONE
LUSTER
MAGMA
MARBLE
METAMORPHIC
MICA
MINERAL
ORGANISM
PROPERTY

PYRITE
QUARTZ
ROCK
SANDSTONE
SCRATCH
SEDIMENTARY
STREAK
TEXTURE