



Introduction to Earth Science

O Lord, how manifold are Your works! In wisdom You have made them all; The earth is full of Your possessions. Psalm 104:24

1. Why do we study earth science?
 - a. To glorify God.
 - b. To learn a lot of facts. Nothing else.
2. What does earth science study? Multiple choices may be correct.
 - a. Geology—studying the earth’s structure.
 - b. Volcanology—the study of volcanoes.
 - c. Meteorology—the study of meteors.
 - d. Oceanography—the study of oceans.
3. _____ is the way to study science from the understanding that God created the universe and everything in it like God says in the Bible.

Creation

Naturalism

4. _____ is the way to study science that ignores what the Bible says.

Creation

Naturalism

PUZZLE

As we learned today, Earth Science studies many things.
Match the field of study on the left to the correct
definition on the right.

Geology

The study of oceans.

Volcanology

**The study of the earth's
structure, rocks, minerals,
and land and water
formations.**

Oceanography

The study of volcanoes.



More About Glaciers

"Trust in the Lord forever, for in God the Lord, we have an everlasting Rock." Isaiah 26:4

1. **True or False?** Glaciers form when more snow falls than melts each year and the snow gets packed so tight it turns into ice.

2. Which continent is almost entirely covered in ice?

Africa

Antarctica

North America

3. Choose the correct statements.

a. All glaciers move.

b. All glaciers move at the same speed.

c. Lambert Glacier in Antarctica is the largest glacier in the world.

d. Jakobshavn Glacier is the fastest moving glacier.

Extra Credit! How fast does the Jakobshavn Glacier move?

WORD SEARCH

Find all the words in the word search below.

Glacier

Ice

Igneous

Metamorphic

Move

Sedimentary

Snow

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



How Glaciers Change the Earth

In the six hundredth year of Noah's life, in the second month, on the seventeenth day of the month, on the same day all the fountains of the great deep burst open, and the floodgates of the sky were opened. Genesis 7:11

1. What is an "ice age"?

A time in the past when glaciers covered a lot more of the earth than they do today.

A made-up idea that has no observations supporting it.

2. **True or False?** Creation and naturalism geologists believe that there was an ice age.

3. Choose the correct statements.

- a. Naturalism geologists cannot scientifically explain how the ice age occurred.
- b. Creation geologists can scientifically explain how the ice age occurred.
- c. Creation geologists think that there were many ice ages in the past.
- d. Naturalism geologists think that there was only 1 ice age in the past.

4. When do creation geologists think the ice age occurred?

Right before Noah's Flood.

Right after Noah's Flood.

5. During the ice age, about how much of the earth was covered in glaciers?

30%

40%

50%



Evidence of Glaciers, Part 1

... and the water receded steadily from the earth, and at the end of one hundred and fifty days the water decreased. Genesis 8:3

1. Which conditions do creation geologists think were present after Noah's Flood so that the ice age could happen?
 - a. Warm oceans providing lots of moisture into the air.
 - b. Cold land so that when the warm, moist ocean air moved onto the land, it snowed a lot.
 - c. No volcanic eruptions.
 - d. Lots and lot of sunlight reaching the land, warming the land up.

2. **True or False?** Glaciers are like enormous bulldozers, moving dirt and cutting into rock.

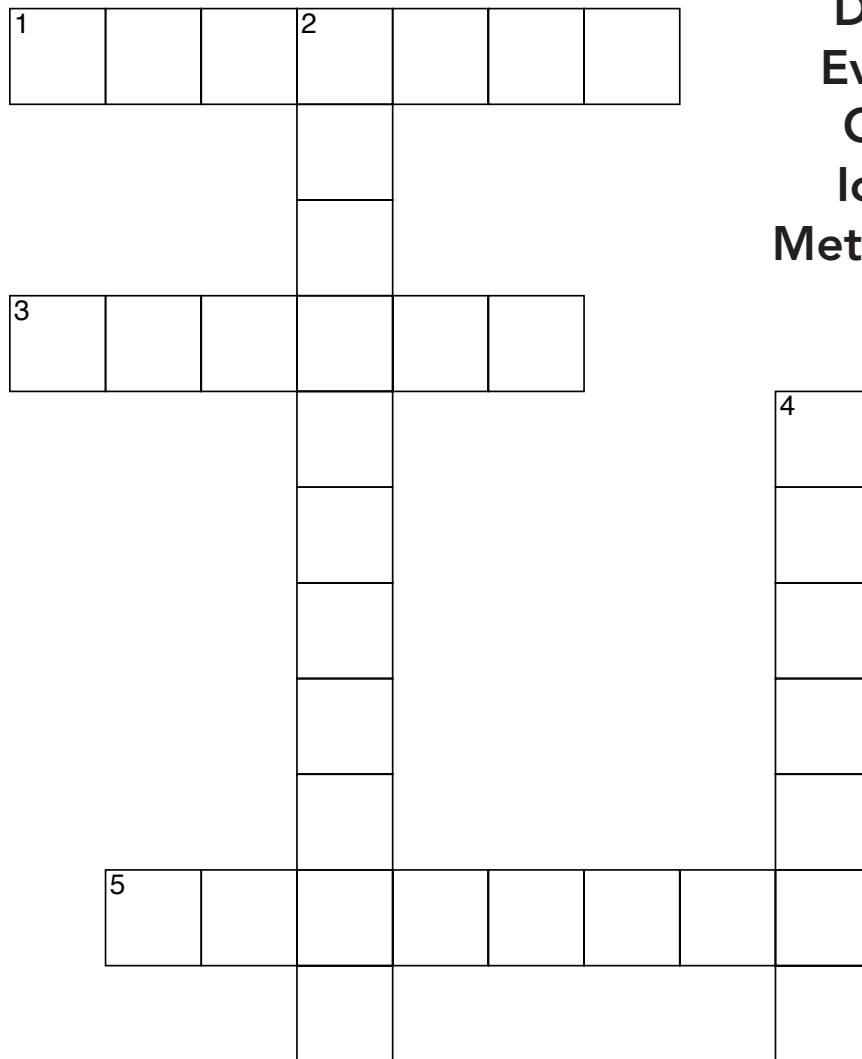
3. One of the observations that gives us evidence that glaciers once covered a lot more of the earth than they do today is grooves cut into the rock called _____.

glacial grooves**glacial striations****glacial stripes**

4. **True or False?** As a glacier moves along the ground it scrapes and picks up rocks and dirt, which it carries to a different location.

CROSSWORD PUZZLE

Finish the crossword puzzle below using the words provided.



**Drumlin
Evidence
Glacier
Ice Age
Metamorphic**

ACROSS

1. Glacial till with one gently sloping side and one steep side, formed from underneath a glacier.
3. Warm oceans and cold land combined caused the _____ to occur.
5. Till, glacial striations, glacial erratics, moraines and drumlins are all _____ of glaciers

in the past.

DOWN

2. _____ rock forms from other types of rock.
4. A _____ is a huge pile of ice formed from snow that moves.