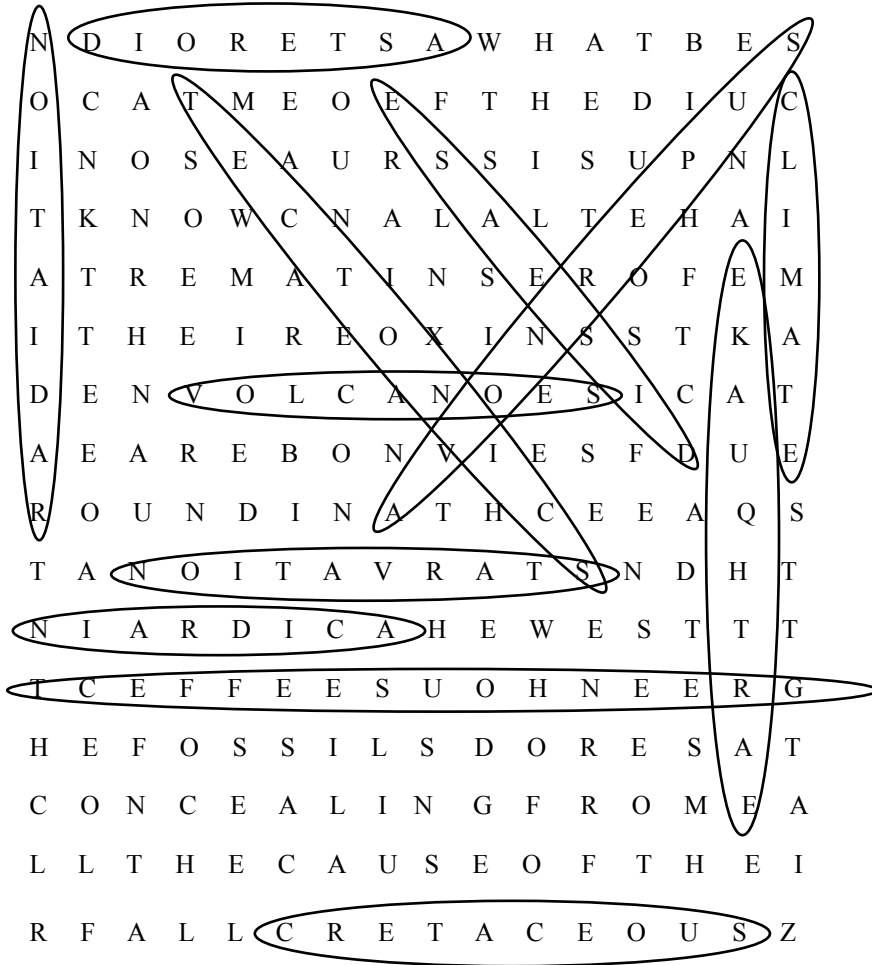


Find the extinction words in the puzzle. Once you've found all the words, the leftover letters make a poem. Take the spare letters, in the order they are written, and fill in the blanks at the bottom of the page. (The very last letter, z, is not part of the poem.)



What became of the dinosaurs is unknown; all that remains of their existence are bones. Found in the east and the west, the fossils do rest, concealing from all, the cause of their fall.

Earth Sciences Gallery

9-12

ANSWER GUIDE

The temperature of the earth's core is estimated to be 7000°C.



Over 99% of the earth's species that have ever lived have gone extinct.

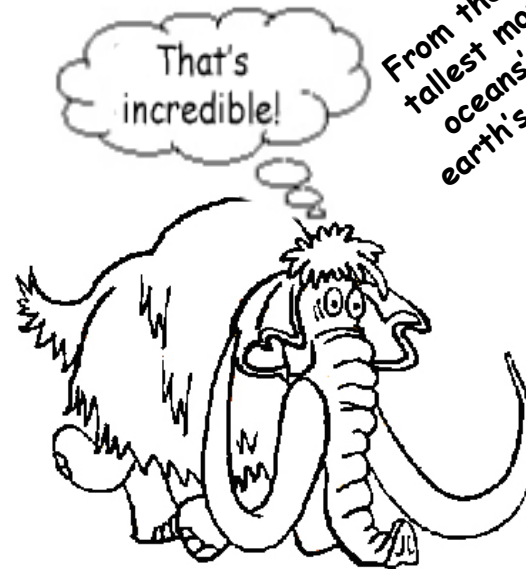
The Triceratops skull in the Gallery is a cast of the real skull. The original fossilized skull had to be replaced by the cast because people were rubbing the horn too much and wearing down the fossil.

The largest known volcano is on Mars. It is 27 km (17 miles) tall and over 520 km (320 miles) across.

From the top of the tallest mountain to the oceans' bottom, the earth's crust is only 70 km thick.

A new species of dinosaur is found approximately once a month.

Scotty, the Tyrannosaurus rex found in Eastend, Saskatchewan, is over 70% complete.



Ministry of
Tourism, Parks,
Culture and Sport

Royal Saskatchewan Museum

1) At the entrance to the Gallery there is a sculpture on the wall. What do you think the artwork represents? **It represents a geological time line. The centre represents the earth's beginning. As it circles outwards it shows different geological periods and what was forming on earth at the time. It ends with a footprint symbolizing the appearance of man.**

2) Where in Saskatchewan is there an old volcano exposed on the surface?
Flin Flon

3) How many years has Saskatchewan been without mountains?
550 million years

4) Name three fossils you see in the Tyndall stone wall that are also found in the *Life of the Ancient Sea* display?
Nautiloid, Horn Coral, Stromatolites (blue-green algae), and Sunflower Coral

5) Why did the Devonian Elk Point Sea have little or no life?
Its waters were saturated with mineral salts.

6) Name three important minerals that came from Saskatchewan's ancient sea.
Salt, Potash, and Anhydrite

7) Do the Spotted Gar in the tank sometimes breathe air?

Yes

8) What has to happen for a bone to become a fossil? **It has to be buried quickly and minerals have to replace the original bone material.**



9) Examine the fossil of the turtle shell (*Thescelus insiliens*). What is one obvious physical difference from modern day turtles? **It has a long tail.**

10) How tall was the early horse? **½ m (20 inches)**

11) The ancestors of the Mastodon entered North America 14 million years ago from Asia. How were they able to cross into North America? **Asia and North America were part of the same land mass; they had not yet split apart. The Mastodon simply travelled over to North America on foot.**

12) How can one determine the direction of ice movement by looking at a drumlin? **The pointed end points in the direction of the ice movement.**

13) What did the South Saskatchewan river originate as? **Glacial spillway**

14) Push the start button on the glacier diorama and answer the following question: What other glacial feature, other than drumlins, shows the path of ice flow? **Fluting fields**

