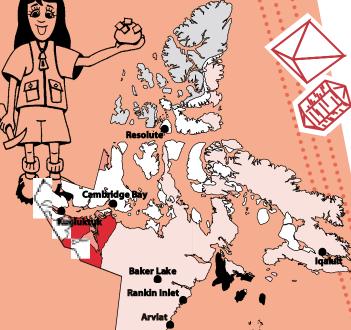


HOW OLD ARE THE ROC

Live in Gjoa Haven? Then rocks around you are up to 500 million years old. Live in Clyde River? These rocks are at least 1,2 billion years old. That's really old!



A CLOSER LOOK AT... QUARTZ AND DIAMONDS

Telling the difference - how hard could it be? Quartz and diamonds are sometimes mistaken for each other. Try to guess which sample is diamond and which sample is quartz.

CHARACTERISTICS

SAMPLE A

- · usually white or colourless but can be other colours
- cannot be scratched by a knife (that's hard!)
- mostly forms six-sided prisms
- one of the most common minerals around

SAMPLE B

- · usually white or colourless but can be other colours
- is the hardest known mineral and will scratch most other minerals (that's even harder!)
- mostly forms eight-sided shapes (octahedrons)
- this mineral is rare

Answer: Sample A is quartz and Sample B is diamond.

Digging deep...did you know? Scientists believe the earth formed about 4.5 billion years ago. The oldest rock found on earth is nearly four billion years old, and the oldest meteorites and rocks from the moon are around 4,5 billion years old.

Explore more!

Time to learn more about geological time? Then check out these Web sites! www.enchantedlearning.com/subjects/Geologictime.html www.cotf.edu/ete/modules/msese/earthsysflr/geotime.html

Are you a rock expert? Test yourself to find out. is the hardest known mineral. 2. The rocks in Baker Lake are to ___years old. 3. Name one geological time era: 4. The earth is years old. 3. Cenozoic, Mesozoic, aleozoic or Precambrian 4. 4.5 billion

Geological Time Scale

Cenozoic



Age of Humanity, present to 1.8 million years ago Age of Mammals, 1.8 million

to 65 million years ago

Mesozoic



Paleozoic



Age of Amphibians, 230 million to 345 million years ago

Age of Fishes, 345 million to 425 million years ago

Age of Marine Invertebrates, 425 million to 570 million years ago



570 million to about 4.5 billion years ago

Contact Us

If you have a geology question you want answered, send an e-mail to: nunavutminerals@inac-ainc.gc.ca

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We welcome your questions, comments or suggestions. Please e-mail us at nuinfo@inac-ainc.gc.ca or phone 867 975-4510. Visit our Web site at www.inac-ainc.gc.ca/nu





