

ROCK BACK IN TIME – STUDENT WORKSHEET

Student name:

Class:

Date:

Insert the Down to Earth disc in the CD Rom.

Click on Rock Back in Time.

Click on View Rocks.

Choose **Granite** then go to - **Scan Rock - View Land - Info.**

1. Read through the information on granite. Complete the following paragraph.

Granite is a (igneous/sedimentary/metamorphic) rock which develops (small/large) crystals from the (slow/fast) cooling of magma. Magma chambers can be up to _____ metres underground, deep in the (crust/mantle/core) of the earth. Granite can only be seen and extracted from the earth after (uplift and erosion/uplift and deposition) has occurred. The minerals in granite are _____, _____ (glassy) and _____ (black).

2. List five items around your home/local area which are made of granite.

3. Click on **View Rocks**. Choose **TWO** more samples. Write a cloze activity like the one in question 1 for each of the samples. You can use any of the information related to the sample e.g under what temperatures was the rock formed? What did the land look like when this rock was formed? What life existed at the time this rock was formed? Write your cloze activities here:

(a) _____

(b) _____

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4. Swap your activities with two other class members. Ask them to fill-in-the-blanks.

5. Complete the following summary table for each rock sample.

I - igneous, S - sedimentary, M - metamorphic.

| Rock sample | Age | Rock Classification: I/S/M | Environment | Life Forms | Temperature and sea level |
|-------------|-----|----------------------------|-------------|------------|---------------------------|
| Marble | | | | | |
| Schist | | | | | |
| Sandstone | | | | | |
| Granite | | | | | |
| Oil Shale | | | | | |
| Coal | | | | | |
| Diamond | | | | | |
| Basalt | | | | | |
| Gold | | | | | |
| Tillite | | | | | |
| Limestone | | | | | |
| Evaporite | | | | | |
| Bauxite | | | | | |

6. During which periods of time was Australia covered by glaciation?

7. During which period of time did lakes dominate central and southern Queensland?
(hint: view sandstone)



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8. **View Rocks: Coal.** Describe the distribution of rivers in Tasmania, central Queensland and eastern NSW during the Permian.

9. **View Rocks: Diamond.** Describe the distribution of highlands in all states during the Cainozoic. What other major feature dominated at this time?

10. **View Rocks: Limestone.** What did the coast of Australia look like during the Silurian 2 period?

