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| GEOLOGY |
| *Complete 20 stars* |
| Rating | No | Activities | Sign |
| \* | 1 | The three main rock types are igneous, sedimentary & metamorphic. Describe how each one is formed |  |
| \* | 2 | Make a working model of a volcano |  |
| \* | 3 | Write a brief report about an early New Zealand geologist |  |
| \* | 4 | New Zealand is on a tectonic plate boundary. Make a chart to show this and its effects |  |
| \*\* | 5 | New Zealand is famous for its thermal areas around Rotorua. Design, write and illustrate a simple publicity brochure to tell tourists what kinds of things they will see (eg. Geysers, boiling mud, etc) |  |
| \*\* | 6 | Retell a legend about greenstone in New Zealand |  |
| \* | 7 | Investigate and write a report on one of these major volcanic eruptions: Tarawera; Krakatoa; St Helens; Mt Vesuvius; Taupo pumice eruption; Rangitoto |  |
| \* | 8 | Dinosaurs are now extinct. What events might have caused this? |  |
| \* | 9 | Collect 5 different rocks and write a brief description of each giving colour, texture and if possible, classifying them as igneous, sedimentary or metamorphic |  |
| \* | 10 | Find out what the MOHRS scale of hardness is. Find out also how it is used |  |
| \* | 11 | Find out how coal or oil or gas are prospected for in New Zealand |  |
| \*\* | 12 | Make a working model of any apparatus used to extract gold in New Zealand |  |
| \* | 13 | Collect 10 newspaper clippings or articles on one geology-related topic, eg. Oil drilling, coal mining, earthquakes, minerals, volcanoes, glaciers. Present this information in a small scrapbook |  |
| \* | 14 | Make a map of the location of glaciers in New Zealand |  |
| \*\* | 15 | Make a collection of 5 rocks. Design a hardness tester and use it to rank them in order of hardness. |  |
| \* | 16 | Describe the movements over the last 100 years of a New Zealand glacier |  |
| \* | 17 | Name 10 minerals and describe them, using a book or by visiting a museum |  |
| \* | 18 | Alfred Wegener first proposed the idea of drifting continents. Write a brief biography of him |  |
| \* | 19 | Design a flow chart on how fossils are formed |  |
| \* | 20 | Make a collection of 6 fossils and say where each was found |  |
| \*\*\* | 21 | Make a simple seismograph of your own. Explain how it works and how it is used |  |
| \*\*\* | 22 | Rivers do much building and eroding. Using a working model, show how this occurs |  |
| \* | 23 | Pretend you are a new reporter describing effects on people of one recent flood or earthquake in New Zealand |  |
| \*\*\* | 24 | Visit a local stream or river. Find evidence of erosion or deposits of material by the stream. Include a simple sketch or diagram |  |
| \* | 25 | Explain how the ages of rocks are estimated |  |
| \*\* | 26 | Many minerals in rocks are represented as crystals. Grow a crystal. Draw the crystal carefully |  |
| \*\*\* | 27 | Make your own fossil using plasticine to make an impression in the plaster to make a mould of it. Mount both on cards and label as examples of impression (casts) a fossils and moulds |  |