

CHAPTER 14: GEOLOGY AND NONRENEWABLE MINERAL RESOURCES

14-1 Earth's Major Geological Processes and Hazards

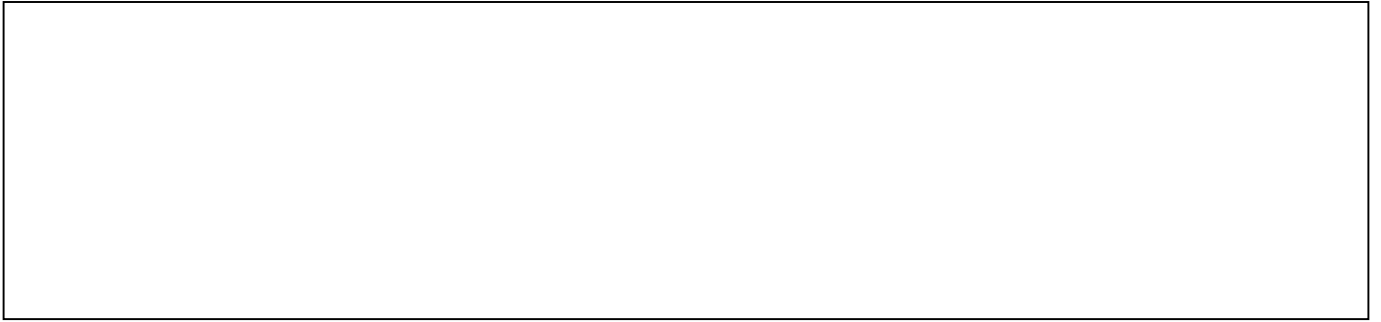
- Earth is a Dynamic Planet

- Earth Beneath Your Feet is Moving

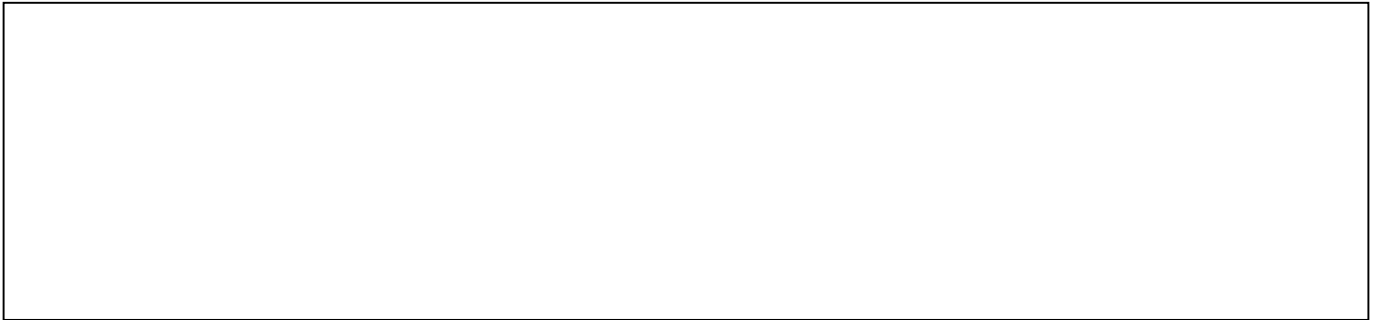
- Geologic Processes – Building Up and Wearing Down

- Volcanoes Release Molten Rock

● Earthquakes & Rock-and-Roll

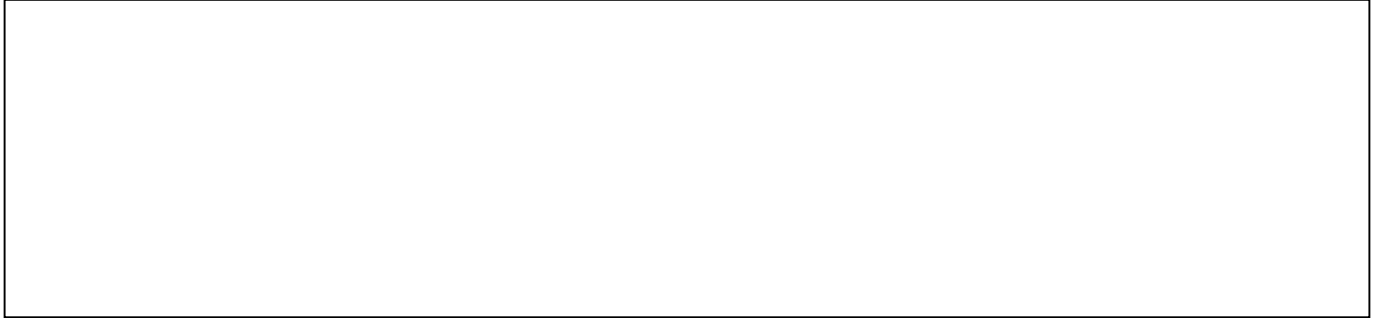


● Earthquakes on the Ocean Floor



14-2 How Earth's Rocks are Recycled

- Major Types of Rocks



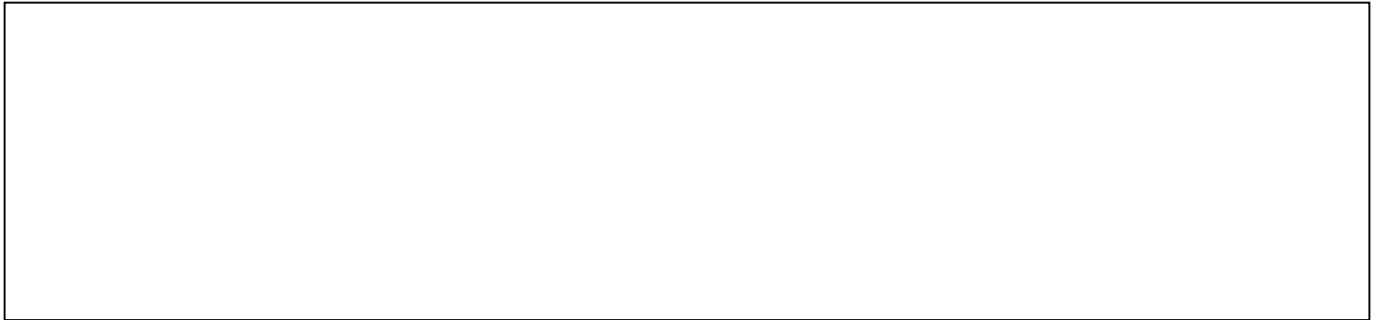
- Rocks are Recycled Slowly



Diagram:

14-3 Mineral Resources and Environmental Effects of Using Them

● Nonrenewable Mineral Resources



● Environmental Impacts of Mineral Use

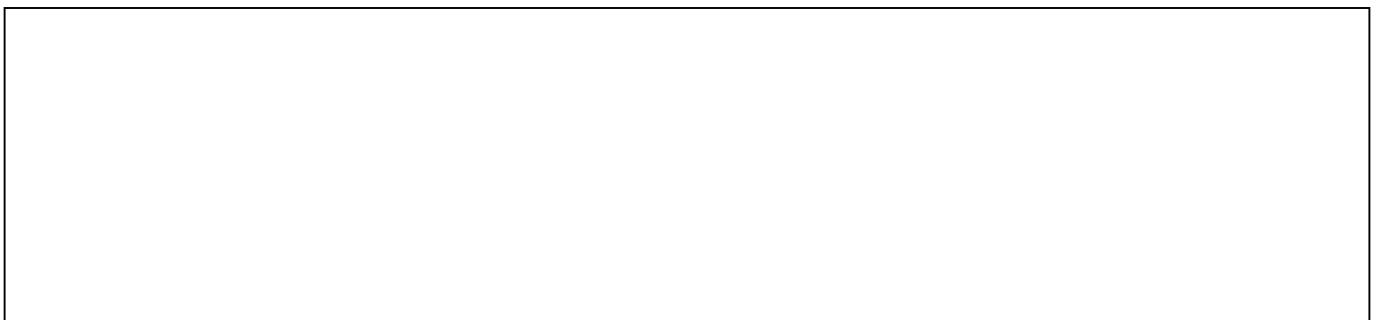


Diagram:

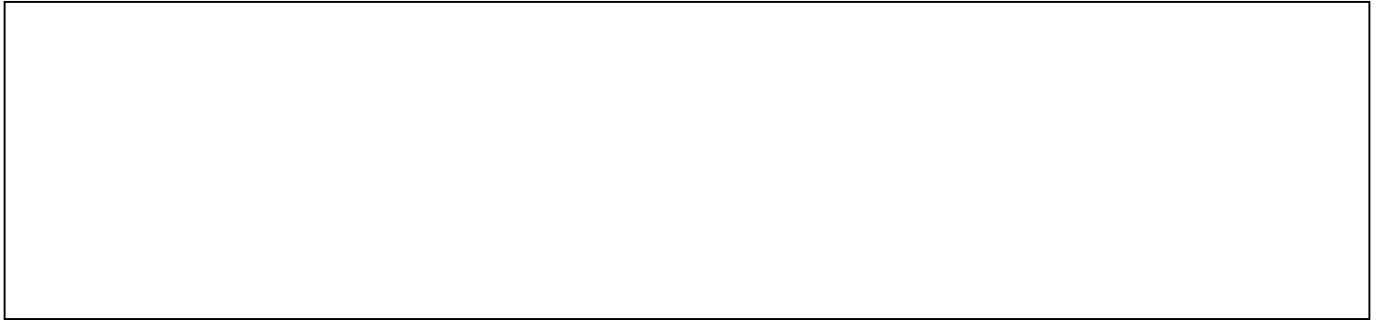
● Ways to Remove Mineral Deposits



● Mining Has Harmful Environmental Effects

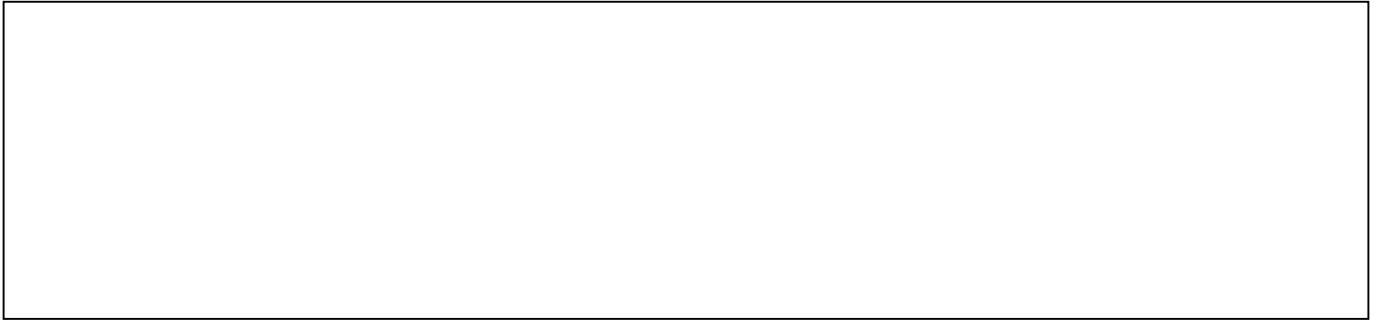


● Removing Metals From Ores Has Harmful Environmental Effects



14-4 How Long Will Supplies of Nonrenewable Mineral Resources Last?

- Uneven Distribution



- Economic Depletion



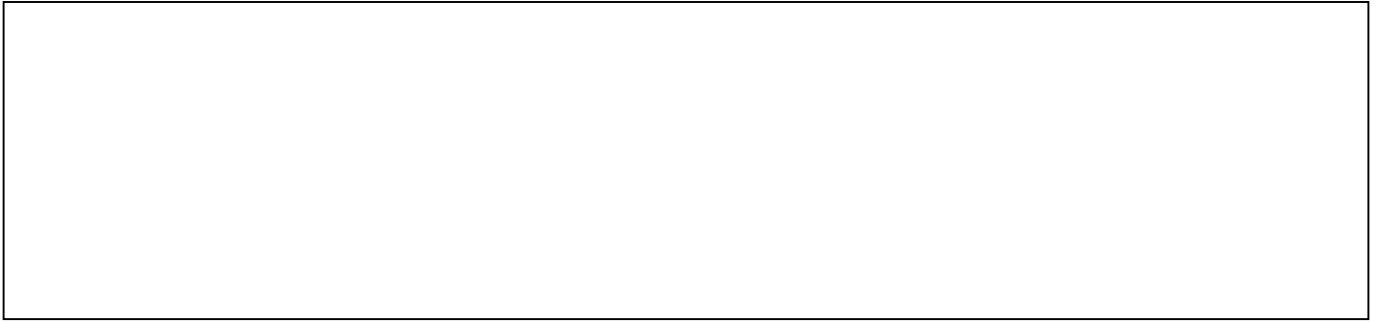
- Market Prices Affect Supplies



- US General Mining Law of 1872



• Mining Lower-Grade Ores

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• More Minerals From the Ocean

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14-5 How To Use Mineral Resources More Sustainably

- Substitutes For Scarce Resources

- Recycle and Reuse

- Use Mineral Resources More Sustainably

- Pollution Prevention Pays