| Chapter 9 | The History of Life on Earth & | Ł |
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| Chapter 8 | Studying Earth's Past | |
| ife Scien | ca | |

Name: Period: Date:

Use the textbook pg. 270

| p270 Earth's Changing Con | tinents |
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| What You Will Leam | |
| Earth's continents have | moved around Earth's surface throughout Earth's history and have only recently arrived at their current locations. |
| | |
| | evidence of continental drift. They also provide evidence of the changes in life and climate that have occured during Earth's history. |
| Why It Matters | |
| Understanding the history of | climate change and life on Earth will help you better understand today's Earth. |
| Vocabulary | |
| | t explains how Earth's tectonic plates |
| move and cha | nge the shape of continents. |
| | t is used to describe how continents have |
| moved arou | nd Earth's surface throughout Earth's history. |
| | |
| Key Concept Movements of | · |
| have affected climate, geographic connections, a | and the distribution of organisms. |
| >The surface of Earth on wl | nich we live is moving. Sometimes, we feel this movement as |
| earthquakes But did yo | u know that Earth's surface has changed so much during Earth's long |
| history that the _continents | have changed <mark>location</mark> ? |
| Plate Tectonics | |
| | of Earth is called the _ <mark>lithosphere</mark> This _ <mark>layer</mark> isbroken into several |
| smaller block called tector | onic <u>plates</u> . These plates <u>rest</u> on a <u>thick</u> layer of <u>solid</u> rock called the |
| mantle <u>is</u> Earth's mantle is | solid, but it moves very _ <mark>slowly</mark> As the _ <mark>mantle</mark> moves, it _ <mark>scrapes</mark> on th <u>e botton</u> |
| of the <u>cold</u> tectonic <u>plates</u> | lying ontop of it. As a result, the tectonicplates move. Earth's <mark>surface</mark> |
| | ge plates andmany small ones. Some of thelarge plates are labeled in Figure |
| | fast as yourfingernails grow-between 2 cm and 5 cm peryear Over geologic |
| time _scales, this moveme | ent can causelarge cumulativeeffectsplate movements may total _thousands |
| | at explains how Earth's tectonic <mark>plates</mark> move and change _ <mark>shape</mark> is called plate |
| tectonics | |