Chapter 9 The History of Life on Earth & Chapter 8 Studying Earth's Past Life Science

Name: Period: Date:

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	Using Radiometric Dating p.248 Figure 3 Half Dome in California's National Park formed when a large of cooled
of" an determines how the can be used for The the rock is, the more material there will be the rock. Isotopes with half-lives can be used to old rocks but not rocks. For with half-lives, rocks do contain enough material to accurate Methods of Radiometric Dating One used for dating is40. Potassium-40 has a life of 1.3 years. It decays to and Geologists measure as the material. This can be used to rock older than years238 is a radioactive that decays to206. Thelife of uranium-238 is billion years. Uranium dating can be used to date rocks than 10 years Half Dome, in National Park, is shown in Figure 3. This is composed of rock. After the rock, it was and by Uranium-lead dating shows that the rock in Dome formed about million years ago. So, geologists can use dating to determine that the and glacial happened sometime in the last million years. p249 The Age of Our Solar System Can radiometric be used to find the of Earth? Yes, but by dating rocks from Earth. The rocks that on Earth have been by plate and Therefore, there are Earth rocks that are as as our planet. But other in space contain that is as as our system. For example, the and some contain rock that formed as our system, including, was forming are small, rocky that have through and to Earth's Geologists have found on Earth. Rocks from the have also been as shown in Figure 4 dating has been on these from other of our solar system. The ages of these show that our	very below Earth's
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