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explore how tectonic plates shape the earth s surface and create mountains volcanoes and earthquakes graham cracker plate tectonics lab just a little info the theory of plate tectonics states that the crust of the earth is composed of seven major plates and numerous smaller plates these plates ride on the hot plastic upper mantle called the asthenosphere scientists and engineers around the globe gather data through observation and experimentation and use it to describe and understand how the world works the earthquakes living lab gives students the chance to track earthquakes across the planet and examine where why and how they are occurring during this lab you will become familiar with features related to tectonic plate activity such as earthquakes volcanoes mountains and oceans you will examine the movement of some plates and think about what kind of rocks are associated with specific types of tectonic settings a plate tectonics overview this lab explores divergent convergent and transform plate boundaries i feel like it gives students a more concrete understanding of boundary interactions the lithosphere and asthenosphere to set up tear off a square of wax paper for each group create plate boundaries and watch what happens to the earth s crust the plates move in our activity graham cracker plate tectonics explain how oceanic hotspots create chains of volcanic islands compare hotspots to plate tectonic boundary types identify geographic examples of different plate tectonic boundaries and hotspots explain why plate tectonics theory is the unifying theory of geology objective understanding plate tectonic features interpreting seismological and bathymetric maps this lab builds upon chapters 3 and 4 in your textbook and is designed to highlight the mechanisms of plate tectonics and hotspots you have two exercises to complete that are modified from your lab manual try this at home science graham cracker plate tectonics activity overview use graham crackers to learn how earthquakes can change the landscape materials 4 graham crackers broken in half frosting of choice sprinkles of choice plate a middle school lab that covers the basics of plate tectonics using the phet simulation students work in teams of two and answer questions about crust composition plate boundaries and landforms the goals of this chapter are to identify types of plate boundaries and compare their characteristic earthquake and volcanic activities assess the basic lines of evidence supporting plate tectonics explain how ancient plate boundaries affect modern topography learn about the theory of plate tectonics the evidence for continental drift and the features and mechanisms of plate boundaries explore the examples of hot spots ridge push slab pull and subduction zones with google earth and rock samples in this plate tectonics activity students analyze the tectonics of a simple fabricated flat planet called geoworld that features continents with ancient mountain ranges oceans complete with magnetic stripes and a hotspot volcanic chain an island arc and a trench tectonic plates are steadily moving an average of three to five centimeters every year that means that earth s crust and human fingernails grow at about the same rate how would your experiment change if you could only move your graham crackers three to five centimeters every year divergent plates convergent plates subduction zone describe the properties of tectonic plates and how that relates to the proposed mechanisms driving plate tectonics be able to describe and identify the features that occur at different plate boundaries interpret spatial and quantitative information with maps and diagrams by analyzing plate tectonics using maps of magnetic anomalies on the ocean floor use measurements numbers calculations and graphs to derive meaning from the earth by graphing your measurements of plate motion explore how plates move on the surface of the earth change temperature composition and thickness of plates discover how to create new mountains volcanoes or oceans phet interactive simulations they are used throughout the world s oceans by oceanographers and marine geologists and geophysicists to answer questions about plate tectonic movement underwater volcanic processes and the

behavior of the deep earth plate tectonics theory dealing with the dynamics of earth s outer shell the lithosphere that revolutionized earth sciences by providing a uniform context for understanding mountain building processes volcanoes and earthquakes as well as the evolution of earth s surface and reconstructing its past continents and oceans

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