

### **plate tectonics how it pdf**

A major geological system is the tectonic system that involves the movement of lithospheric plates. The plates move seemingly independently, which indicates that the system is dynamic, i.e. material. and energy move and change from one form to another.

### **INTRODUCTION TO TECTONICS - ETH Z**

Plate tectonics, our major paradigm for how the Earth works, was established in the 1960ies following decades of observational research that culminated in key discoveries such as geomagnetic reversals, mid-ocean ridges, transform faults, and seafloor spreading.

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miles) depth. The theory of plate tectonics proposes that the lithosphere is divided into a series of plates that fit together like the pieces of a jigsaw puzzle. Although plate tectonics is a relatively young idea in comparison with unifying theories from other sciences (e.g., law of gravity, theory of evolution), some of the basic

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important discoveries of the 20th centuryâ€”plate tectonics. You have already learned about Earthâ€™s surface and that it is covered with a lithosphere that is broken into pieces called. â€œplates.â€• Plate tectonics is the study of the movement of these. plates.

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fractures it produces earthquakes that get progressively deeper. Plate Tectonics By combining the sea floor spreading theory with continental drift and information on global

### **Continental Drift, Sea Floor Spreading and Plate Tectonics**

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Subduction processes during plate convergence result in the formation of volcanoes. Over millions of years, the erupted lava and volcanic debris pile up on the ocean floor until a submarine volcano rises above sea level to form an island volcano.

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Plate Tectonicsâ€”the theory supported by a wide range of evidence that considers the earthâ€™s crust and upper mantle to be composed of several large, thin, relatively rigid plates that move relative to one another.

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