Unit 11 Weathering and Erosion Earth Science the breakdown of rock L Weathering Rocks are weathered when they are uplifted and exposed to the hydrosphere, atmosphere and Diosphere Description at or near the Earth's surface supplies the moister to the Earth's surface that contributes to the weathering of rocks. d. There are two types of weathdring rechanica Weathering is the weathering that changes the physical form without changing the chemical composition. 1. Harder minerals and rocks breakdown Slower than softer minerals and rocks. There are different types of physical weathering a. frost action important agent of weathering in areas with seasonal temperature changes i. Water seeps into cracks in rocks ii. Water wan expands when it freezes. iii. This makes the cracks Digger. iv. The alternating freezing and thawing will cause the rock to breakdown. Coot Action roots grow in the cracks and push the Burrowing Animo expose new surfaces of rock to weathering. - collisions that bump and break 1+ brasion rocks apart. weathering that breaks sown rock by changing the chemical rock's chemical composition. 1. Happen's when the rocks reach the Earth's surface. The rocks become unstable and the rock changes chemical composition. 2. *Takes place more rapidly in Worm moist climates. acid precipitation can chemically breakdown very durable rocks (Marble) 4. Some n inerals are more resistant to chemical weathering (granite). Factors affecting weati ering exposure . the more exposure that the rocks have to the environment, П. the faster the rocks will weather. - the smaller the particles, the faster it will weather (because a pile of small particles has more surface area. - different minerals have different c. Composition hardnesses. (calcite is soft, quartz is harder)

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