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one box to another. Sediment rocks Sandstone, slate and limestone are examples of sediment rocks. The most well-known type of sediment rock found in Utah is sandstone. Ask students where the sand came from in this process. Briefly review how sediment rocks form. Let students explore all the rocks and try to identify them through field guidebooks and handheld lenses. Students should look at all the layer lines of sediment rock samples. Ask them to imagine pressing and cementing to make this rock. Station 3: Experiments: Acid and magnet tests (15 minutes) Explain to students that some substances react to certain chemicals, and investigators often use chemicals to uncover traces. We will use a chemical test to determine which minerals in the mineral bag contain calcium carbonate, the substance found in toothpaste, vinyl, chalk, glass and chewing gum coating. Give a petri dish to each student in the group. Place a paper towel on a flat surface and place the petri dish on top. Place 1/4 teaspoon baking soda in the petri dish. Add a few drops of vinegar (acid) to the baking soda. Notice what's happening. Baking soda is made from carbonate and fizz when it comes into contact with acid like vinegar. Let each student take 5 samples of the mineral bag and try to figure out which reacts with the acid. Place the samples on the paper towel and add a few drops of M10%HCl acid M. Notice what's happening. (Be very careful not to get the acid on you). Students should plan their own experiments. Objects containing iron are attracted to magnets. Look at the flasks of iron filings and magnets inside and then let the students describe how they could test the iron for mineral samples. Then let them try it. Conclusion: Rocks can be divided into three main groups depending on how they form. Sediment rocks are made of sand and sludge, which are pressed into layers. The stone became so hot that they melted, then cooled and solidified again. Metamorphic rocks are sedimentated or volcanic rocks that have been altered by the influence of heat or pressure. There are many ways that rocks can be changed. The Earth vkanus below or below are constantly physical and chemical conditions that alter them. As a result of these changes, sedimentary rocks, metamorphic rocks or new volcanic rocks are formed. Students should be able to describe and characterize different types of common rocks, use the guidebook to identify rocks and minerals, and be aware of the many uses of rocks and minerals in today's world. Cleaning: Return all samples to the museum box. Make sure the tables are wiped clean and all hand lenses and acid vials are returned to volunteers. Rating: Notice students attending different activities at each station. Make sure that each student gets a chance to correctly identify one for each category of rocks and minerals. Useful Internet Resources: Petrology Basics geol202/petrology/rock.html Rock Doctor 2000 bug2/rock1.htm Identifying Rocks identify_rocks/identify_rocks1.htm Background Information: Rocks are solid lumps of minerals made up of the Earth's crust. A mineral is a substance that has a definite chemical composition and characteristic physical properties such as hardness, crystal structure and glitter. Some examples of minerals are quartz, pyrite, gold and copper. There are three different ways to create rocks, so geologists usually classify the rock according to how it was made. The three main types of rocks- volcanic, sedimentous and metamorphic, are all found in Utah! The earth-derived stone masonry from magm or liquid rock is derived. Tremendous heat in the Earth's crust produces the liquid magma. When magma cools and hardens beneath or on the earth's surface, it produces volcanic rocks. The rate at which the rock cools from liquid to solid affects its shape and texture, features that help to classify the rock as unreasonable. In the Salt Lake Valley we find granite in the Great and Small Cottonwood Canyons. Granite is a volcanic rock that cools below the earth's surface. It's a hard rock with patches of quartz crystals. Other volcanic rocks are cool above the surface of the earth, and are called volcanic rocks. Two examples of this, obsidian and pumice stone look very different from each other. The fastest cooling of lava results in obsidian. Metamorphic metamorphism means a change in form or composition. Metamorphic rocks form deep in the ground when previously existing rocks change due to intense pressure, chemical reactions and heat. Often these rocks are former sedimentary rocks that have been recrystallized (repetition of the rock forming process). E.g. slate recrystallized slate, marble recrystallized limestone and quartzite recrystallized sandstone. Sediment sediment or small fragments, or the remains of plants and animals. Over millions of years, these sediment have settled at the bottom of oceans or lakes. When layers of sand and mud are pressed together over time, it produces sedimentous rocks. The most well-known type of sediment rock found in Utah is sandstone. Layers of sedimented rock are obvious. Slate is the most common sediment rock. It is made of mud and clay inserts, very soft and weather quickly. Minerals Minerals are either free, non-combined native elements or elemental compounds. Our definition of this activity is simply that they are rocks-embracing materials. The mineral is a naturally occurring inorganic solid (except water, mercury and opal) with a specific chemical composition (atomic structure) and crystalline structure. The composition of each mineral varies within specified limits. Borders.

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