

# ASTRONOMY 07

## Rock sheet

| #     | ROCK           | TYPE               | SITE                     | THINGS TO NOTE   |
|-------|----------------|--------------------|--------------------------|--|
| 10001 | Serpentinite   | Metamorphic        | Plumas Co., CA           | Slick surface, greenish.   |
| 10002 | Calcite        | (Mineral)          | El Dorado Co., CA        | Formerly carbon dioxide.   |
| 11001 | Pumice         | Igneous (Volcanic) | Douglas Co., OR          | Very low-mass for its size.  |
| 11002 | Sandstone      | Sedimentary        | Southern Spain           | Grainy, cemented sand.   |
| 12001 | Obsidian       | Igneous (Volcanic) | Modoca Co., CA           | Use caution. Sharp edges, like broken glass. So fine-grained it doesn't have grains! |
| 12002 | Coral          | ---                | Kaua'i Co., HI           | Formerly a life form.  |
| 12003 | Obsidian       | Igneous (Volcanic) | Lake, Co., CA            | Use caution. Sharp edges, like broken glass. So fine-grained it doesn't have grains! |
| 13001 | Limestone      | Sedimentary        | San Bern. Co., CA        | Fossil bearing.  |
| 14001 | Granite        | Igneous            | Tuolumne Co., CA         | Overall light grey. White and black. Large crystals show it cooled slowly.           |
| 14002 | Granite        | Igneous            | Tuolumne Co., CA         | Overall light grey. White and black. Large crystals show it cooled slowly.           |
| 14003 | Basalt         | Igneous            | Tuolumne Co., CA         | Overall dark grey. Very tiny crystals show it cooled rapidly. (2 pieces)             |
| 14004 | Mudstone       | Sedimentary        | Napa Co., CA             | Fine grained, cemented mud! (2 pieces)   |
| 14005 | Tuff           | Igneous (Volcanic) | Mono Co., CA             | Ash that solidified. (2 pieces)  |
| 15001 | Granite        | Igneous            | Baja California, MX      | Overall light grey. White and black and pink. Large crystals show it cooled slowly.  |
| 15002 | Sandstone      | Sedimentary        | Baja California, MX      | Different layers laid down different times.  |
| 15003 | Mica Shist     | Metamorphic        | San Diego Co., CA        | Fragmented chips of mica.  |
| 15004 | Hematite       | Metamorphic        | Ilroud, Morocco (bought) | Note spheroidal bumps, similar to nodules on Mars.                                   |
| 15005 | Travertine     | Sedimentary        | Mono Co., CA             | CaCO <sub>3</sub> deposited at a hot spring; note layering showing episodes.         |
| 15006 | Tuff           | Igneous (Volcanic) | Mono Co., CA             | Bishop Tuff, 760,000 years old.  |
| 15007 | Gneiss         | Metamorphic        | Placer Co., CA           | Formerly plutonic (underground igneous). Note layers from squeezing.                 |
| 15008 | Greenstone     | Metamorphic        | Yolo Co., CA             | Green = formerly basalt, quartz veining injected via lava into cracks.               |
| 15010 | Jasper         | Sedimentary        | Yolo Co., CA             | Extremely fine texture, layers showing episodes of deposition                        |
| 15011 | Granite        | Igneous            | Los Angeles              | Note loose alignment of black crystals suggest squeezing or stretching               |
| 15012 | Serpentinite   | Metamorphic        | Siskiyou Co., CA         | Slick surface, greenish.   |
| 15013 | Gneiss?        |                    | Sacramento County, CA    | Note the two faults, filled with quartz. The broken fault is older.                  |
| 16001 | Slag           | Manmade            | Cook County, IL          | Looks like something from space; commonly misidentified as a meteorite               |
| 17001 | Marble         | Metamorphic        | Humboldt County, CA      | Weakly metamorphosed limestone; showing distorted layering                           |
| 17002 | Conglomerate   | Sedimentary        | Inyo County, CA          | Notice the chunks of older rock, cemented together                                   |
| 18005 | Coal           | Sedimentary        | Las Animas County, CO    | More than 65 MY old; carbonized plant materials (four pieces)                        |
| 18006 | Coal/K-Pg      | Sedimentary        | Las Animas County, CO    | More than 65 MY old; carbonized plant materials (four pieces)                        |
| 18007 | Sandstone/K-Pg | Sedimentary        | Las Animas County, CO    | Less than 65 MY old; carbonized plant materials (four pieces)                        |
| 18008 | Claystone/K-Pg | Sedimentary        | Las Animas County, CO    | 65 MY old; pulverized material from the Yucatan impact                               |