

MYSTERY SAMPLES AND SUPPLIES INCLUDED IN YOUR KIT

___ ROCK DETECTIVE MYSTERY NOTEBOOK WITH INSTRUCTIONS



- ___ Acid, 2.8% Muriatic (HCl) Double packaged
- ___ Baking Soda
- ___ Box, Beach-in-a-box
- ___ Crisco to mix with powdered Goethite
- *** Mystery samples are only available in Loan Kits at this time

USED IN MYSTERY

11
11
112
63

- ___ Glass plate, Hardness Test
- ___ Magnet
- ___ Magnifying glass. Especially good for Mysteries 32,33,39,44,52,54,78,83,90,107,111,112,118,126
- ___ Pumice floating container
- ___ Streak plate, small square unglazed ceramic tile

USED IN MYSTERY

31,77
13,143
40
13, 197

- 1 ___ Kyanite
- 2 ___ Petrified Wood Gr 1-5
- 3 ___ Sharks Teeth
- 4 ___ ***Paleocene Fossils, VA
- 5 ___ ***Devonian Fossils, NY
- 6 ___ ***Tertiary Fossils FL
- 7 ___ Volcanic Ash, Mt Spurr AK
- 8 ___ Volcanic Ash Mt Redoubt AK
- 9 ___ Brachiopod + Articulated Mollusk
- 10 ___ Articulated Bivalve
- 11 ___ Calcite, Many kinds
- 12 ___ Calcite + Gypsum
- 13 ___ Metal Ores + Magnetite
- 14 ___ Muscovite
- 15 ___ Diatomite
- 16 ___ Halite
- 17 ___ Breccia
- 18 ___ Shells, Modern + Fossil Gr 6-9
- 19 ___ Tectite
- 20 ___ Geologic Samples-Sawed Faces
- 21 ___ ***Washings-Tertiary Ls Well-FL
- 22 ___ Drill Core
- 23 ___ ***Rib Bone Fossil, Tertiary, Marine Mammal
- 24 ___ Fossil Vertebra, Tertiary, Porpoise
- 25 ___ Fossil Vertebra, Tertiary, Whale
- 26 ___ Trace Fossils
- 27 ___ Mud Wasp Nest
- 28 ___ Asphalt Gr 2-5
- 29 ___ Cobbles, Quartzite w/ Scolithus linearis
- 30 ___ Coal
- 31 ___ Quartz, Many kinds
- 32 ___ Petrified Wood + Fossil Bone Gr 2-8
- 33 ___ Slag
- 34 ___ Jade, uncut
- 35 ___ Amazonite, feldspar Gr3-5
- 36 ___ Prehnite
- 37 ___ Opal, raw
- 38 ___ Fossil-bearing rock Gr 2-6
- 39 ___ Shale with + Shale without fossils Gr 6-9
- 40 ___ Pumice
- 41 ___ Basalt Gr 3-5
- 42 ___ Fossil limestone
- 43 ___ Geologic samples marked with numbers
- 44 ___ Granite
- 45 ___ ***Fossil Jaw Bone, Whale
- 46 ___ Exogyra
- 47 ___ Gryphaea
- 48 ___ Anhydrite Gr 5-9
- 49 ___ Fossil Ear Bone, Whale
- 50 ___ Bryozoan, Stony, Ordovician Gr 2-5
- 51 ___ Mineral Identification
- 52 ___ Feldspar + Granite 3-5
- 53 ___ Onyx Gr 3-5
- 54 ___ Cockeysville Marble (Cambrian, MD, USA)
- 55 ___ Trilobite, Whole
- 56 ___ Horn Coral Gr 1-5
- 57 ___ Brachiopod Gr 3-5
- 58 ___ Toledo Worm, Tertiary, FL
- 59 ___ ***Worm Burrows in Sedimentary Rock
- 60 ___ Coating of Tiny Quartz Crystals
- 61 ___ Fissile Shale
- 62 ___ Concrete
- 63 ___ Goethite Gr 1-5
- 64 ___ Talc
- 65 ___ Anthracite Coal
- 66 ___ Echinoderm Gr 1-4
- 67 ___ ***Fossils, Silurian
- 68 ___ ***Fossils, Pleistocene
- 69 ___ Fossils, Paleozoic, Indiana
- 70 ___ ***Fossils, Pliocene, Sarasota FL
- 71 ___ ***Fossils, Pliocene, Laurel MD
- 72 ___ ***Fossils, Miocene, Sarasota FL
- 73 ___ Fossils, Miocene, Hampton VA

- 74 ___ ***Fossils, Miocene, Naples FL
- 75 ___ Fossil Leaves, Black Shale, Pennsylvanian
- 76 ___ Fluorite Gr 4-8
- 77 ___ Quartz + Calcite
- 78 ___ Dendrite
- 79 ___ Trace Fossil, Snail Trail
- 80 ___ Limestone + Marble Gr 3-6
- 81 ___ Sand, Three Kinds
- 82 ___ Shale with leaf fossils
- 83 ___ Schist with mica flakes Gr 1-5
- 84 ___ Coprolite
- 85 ___ Slickensides
- 86 ___ Diabase
- 87 ___ Brain Coral Gr 1-5
- 88 ___ ***Fossil Rib Bone, Sea Cow
- 89 ___ Metasediment, Pebble Conglomerate
- 90 ___ Oil Sand
- 91 ___ Talc (for Baby Powder)
- 92 ___ Copper Ore
- 93 ___ Weathered Rock
- 94 ___ ***Calcite, Botryoidal
- 95 ___ Gneiss
- 96 ___ Gold Ore Gr 3-6
- 97 ___ Quartzite Gr 2-5
- 98 ___ Stilbite Gr 2-5
- 99 ___ Serpentine, Rockville, MD
- 100 ___ Talc, with other minerals GR 3-5
- 101 ___ Hematite (Historic Iron Ore)
- 102 ___ Lithographic Limestone
- 103 ___ Dentalia
- 104 ___ Bauxite Gr 5-8
- 105 ___ Pecten, Chesapeake
- 106 ___ Biotite Gr 5-8
- 107 ___ Pegmatite Gr 1-5
- 108 ___ Drag fold Gr 1-6
- 109 ___ Schist (with bent layers) Gr 4-7
- 110 ___ Turretella Gr 1-4
- 111 ___ Fossil Barnacles
- 112 ___ Beach-in-a-Bag Gr 1-8
- 113 ___ Red Encrusting Foraminifera Gr 8-12
- 114 ___ Coral, Miocene Age Gr 1-4
- 115 ___ Mudstone with Conchoidal Fracture
- 116 ___ Gastropods, Left and Right handed Gr 1-6
- 117 ___ Graptolites Gr 1-6
- 118 ___ Shale, Poker Chip
- 119 ___ Cobbles, Rappahannock River, VA, USA
- 120 ___ Cobbles, Major River Gr 1-4
- 121 ___ Rock with Trilobite Pieces
- 122 ___ Quartzite + Sandstone Gr 3-6
- 123 ___ Fossils, ID to species + Location Gr 5-8
- 124 ___ Fossil Sand Dollars, Pliocene, FL Gr 5-8
- 125 ___ Fossil Assemblage Gr 5-8
- 126 ___ Tuff (Ignimbrite) Gr 5-8
- 127 ___ Crinoid-bearing Rock Gr 1-6
- 128 ___ Barite Gr 5-8
- 129 ___ Fossils, Pliocene, Norfolk VA
- 130 ___ Bryozoans, Tertiary Gr 5-8
- 131 ___ Indian "Things" Gr 1-5
- 132 ___ Silver Ore
- 133 ___ Umber, Weathered Copper Ore
- 134 ___ Oyster, Ostrea Sinuosa
- 135 ___ Amethyst Gr 11-16
- 136 ___ Smoky Quartz Gr 11-16
- 137 ___ Citrine Gr 11-16
- 138 ___ Crinoids, loose pieces Gr 1-5
- 139 ___ Ammonites, Germany Gr 7-12
- 140 ___ Fossil Fish, Eocene Gr 4-10
- 141 ___ Agate Gr 2-4
- 142 ___ Large Mollusk Shell, Cretaceous
- 143 ___ Magnetite Sand Gr 1-4
- 144 ___ *** Chert or Flint with Knapping Stone
- 145 ___ Granite Gneiss and Granite Gr 7-9
- 146 ___ Scleractinian Coral Identification

- 147 ___ Fossil Leaves and Stems Gr 1-4
- 148 ___ Crystals, Generic Gr 1-4
- 149 ___ Topaz, "gouttes d'eau", Brazil 5-12
- 150 ___ Alabaster
- 151 ___ Garnet Gr 5-8
- 152 ___ Lepidolite
- 153 ___ Apatite Gr 6-9
- 154 ___ Sodalite
- 155 ___ Beryl
- 156 ___ Tourmaline Gr 5-8
- 157 ___ Conglomerate, Pebble Gr 5-8
- 158 ___ Steel slag, Grades 5-8
- 159 ___ Steel slag, Grades 9-12
- 160 ___ Cobbles & Coral, St. John USVI Gr 6-12
- 161 ___ Chalk--England Gr 5-12
- 162 ___ Loess--Fairbanks, Alaska Gr 5-12
- 163 ___ Onyx Marble 5-8
- 164 ___ Fossil ID'd to species and location, Gr 9-12
- 165 ___ Spodumene
- 166 ___ Concrete Blocks
- 167 ___ Plant fossils, Green River Fm.
- 168 ___ "Apache Tears" Gr 5-12
- 169 ___ Fossil Turtle Bone
- 170 ___ Fossil Trailways, Crawling Organism
- 171 ___ Ammonite, Gr. 7-12
- 172 ___ Lyons Sandstone, CO
- 173 ___ Fossil Leaves, Miocene, CA, USA
- 174 ___ Serpentine, Thetford, Quebec Gr 7-12
- 175 ___ Modern Sand Dollars Gr 5-8
- 176 ___ Banded Iron Formation, Precambrian Age, MI, USA Gr 9-12
- 177 ___ Granite from Maine, History
- 178 ___ ***Fossils, Pliocene, Punta Gorda, FL, USA
- 179 ___ Banded Iron Formation, Precambrian Age, MI, USA Gr 5-8
- 180 ___ Cave Travertine, Gr 5-8
- 181 ___ Shale for Brick, VA, USA
- 182 ___ Obsidian Gr. 3-8
- 183 ___ Schist or Gneiss? Gr 3-8
- 184 ___ Loess, Alaska, USA Gr. 9-12
- 185 ___ Chesapeake jeffersonian, Pliocene, Va, USA
- 186 ___ Fossil Assemblage, Pliocene, Chuckatuck, VA, USA Gr 3-12
- 187 ___ Oyster, Ostrea sp. Gr 3-8
- 188 ___ Shell Hash, fossil Gr 1-6
- 189 ___ Fossil Assemblage, Cincinnati Group _____ Ordovician, OH/IN/KY, USA Gr 3-8
- 190 ___ Union Marble, Maine Gr 3-6
- 191 ___ Granite & Gabbro, Gr.3-6
- 192 ___ Granite & Gabbro, Gr7-9
- 193 ___ Fossil Assemblage, Cincinnati Group, OH/IN/KY Gr. 5-12
- 194 ___ Granite & Gabbro, New Paradigm Gr. 7-12
- 195 ___ Graptolites, Gr 7-9
- 196 ___ Obsidian Gr. 7-12
- 197 ___ Hematite Gr. 1-4
- 198 ___ Fordham Gneiss, New York City, USA Gr. 3-6
- 199 ___ Wavellite, radial structure Gr 3-6
- 200 ___ Cliff Swallow nest Gr 4-8
- 201 ___ Ammonites, Jurassic, England Gr 7-12
- 202 ___ Granite, radiometric dating Gr. 5-10
- 203 ___ Sample with numbers Gr. 4-8
- 204 ___ Rock and Crystal Gr 1-5
- 205 ___ Unakite Gr 5-10
- 206 ___ Fossil sea urchin Gr 1-4
- 207 ___ Native Copper Gr 5-8
- 208 ___ Native Copper Gr 2-4
- 209 ___ Topaz Gr 4-10
- 210 ___ Blue Sapphire Gr 6-8
- 211 ___ Pectolite Gr 4-8
- 212 ___ Calcite, Scalenohedral Gr 9-12
- 213 ___ Geode(s) Gr 6-12

MYSTERY SAMPLES -- Page 2

- 214 ___ Slate, Metamorphic Rock Gr 4-8
 215 ___ Celestite Gr 6-8
 216 ___ Vesuvianite Gr 9-12
 217 ___ Serpentinite (Grossular Garnet + Diopside)
 Gr 6-8
 218 ___ Chromium Grossular Garnet Gr
 219 ___ Rose Quartz Crystals Gr 6-12
 220 ___ Staurolite, Twinned Gr 9-12
 221 ___ Native Sulfur
 222 ___ Graphite
 223 ___ Graphic Granite
 224 ___ Drill Core Gr K-4
 225 ___ Slate vs Shale Gr 3-8
 226 ___ Fish Vertebrae, Miocene, USA Gr 4-8
 227 ___ Petoskey Stone, MI
 228 ___ Actinolite
 229 ___ Diopside
 230 ___ Scoria
 231 ___ Augite
 232 ___ Dolomite
 233 ___ Clay concretions
 234 ___ Flint
 235 ___ Chabazite
 236 ___ Doubly Terminated Crystals
 237 ___ Rocks from Manitoba, NWT, Gr 9-12
 238 ___ Cleavlandite
 239 ___ Barite with Siderite
 240 ___ Union Marble Gr 8-12
 241 ___ Kineo Rhyolite Devonian, Maine Gr 9-12
 242 ___ Kyanite, massive, uses for Gr 6-12
 243 ___ Fossil Turtle Shell
 244 ___ Trace Fossil in Limestone
 245 ___ Herkimer Diamonds (Quartz crystals)
 Herkimer, NY
 246 ___ Chert Gr 3-8
 247 ___ Shale with & w/o fossil(any type) Gr 3 -8
 248 ___ Sample stained for K-spar Gr 9-12
 249 ___ Fern Leaves, Pennsylvanian, eastern US,
 Gr 9-12
 250 ___ Loess, Mantanuska Valley, AK Gr 5-12
 251 ___ Kaolin, clay for porcelain Gr 5-8
 252 ___ Ilmenite Sand, Cove Point, MD
 Gr 9-12
 253 ___ Tactite (skarn)_Fizzes! Gr 9-12
 254 ___ Trilobite Pieces Gr 9-12
 255 ___ Kaolin, F-spar alteration andCretaceous
 deposits Gr 5-12
 256 ___ Kaolin, Molecular change to porcelain
 Gr 5-8
 257 ___ Kaolin, Molecular change to porcelain and
 x-ray diffraction Gr 9-12
 258 ___ Kaolin, F-spar alteration, erosion, and
 distribution in ocean sediments Gr 9-12
 259 ___ Biotite, A mineral in thin sheets Gr 5-12
 260 ___ Modern Echinoderm Gr 1-8
 261 ___ Ordovician Basalt, Maine Gr 9-12
 262 ___ Biotite, in granite
 263 ___ Feldspar, makes glass
 264 ___ Rhyolite and Basalt
 265 ___ Fossil Alligator bones
 266 ___ Angel Wings sea shell
 267 ___ Onyx Marble, not finely banded
 268 ___ Phyllite, a metamorphic rock
 269 ___ Andesite
 270 ___ Lapilli Tuff
 271 ___ Belemnites
 272 ___ Coral, Rugose vs Tabulate
 273 ___ Exogyra and Gryphaea
 274 ___ Manganese oxide and a power cell
 275 ___ Common Opal, pearly luster
 276 ___ Apophyllite
 277 ___ Chrysocolla
 278 ___ Shattercones, caused by meteor impact
 279 ___ Siltstone, grainsize/a quiet energy
 sedimentary rock
 280 ___ Carbonate core comparison, Deike USGS Pub
 281 ___ Blue Quartz
 282 ___ Meta Tuff, metamorphosed volcanic ash
 283 ___ Tuscarora Quartzite, holds up mountains,
 eg. Folded Appalachians
 284 ___ Massive Garnet
 285 ___ Drill core with burrows
 286 ___ Granite? w/ opalescent grains
 287 ___ Anorthosite w/ chatoyant anorthite
 288 ___ Tshirege Pumice/Ashfall
 289 ___ Serpentine
 290 ___ Rutile xtals in quartz
 291 ___ Mt St Helen's Ash
 292 ___ Amber
 293 ___ Coquina
 294 ___ Epidote
 295 ___ Blastoid
 296 ___ Turritella, Miocene(?) Chesapeake Bay
 297 ___ Lassen Volcanic Rocks, CA
 298 ___ Fish Vertebra, Morocco (after #226) Gr 4-8
 299 ___ Sandstone w/ fossil fragments How?
 300 ___ Sand, Three kinds (after #81): Gypsum from
 White Sands, NM--Shelly Beach--Loess from
 Alaska
 301 ___ Cobbles, Sacramento River, California
 302 ___ Salt, Bonneville Flats, Utah
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