

Clark County Minerals Education Workshop

Surfing a Sea of Sites - Navigational Information

Internet Resources for more information and activities on maps, map-reading, map-making:

UTM definition and explanation:

<http://mac.usgs.gov/mac/isb/pubs/factsheets/fs07701.html>

Interactive drawing topographic cross-sections – clear and simple

http://www.eoascientific.com/cartography/aaMaps_M4_profiles_Z.htm

More detail on how to make topographic cross-sections – also clear and simple

http://geology.isu.edu/geostac/Field_Exercise/topomaps/topo_profiles.htm

Notes from college-level field methods class notes on using and making maps and cross-sections:

http://ees2.geo.rpi.edu/field_methods/pictures/101901%20class/cross_section_al1.pdf

Everything you ever wanted to know about topographic maps:

<http://www.umkc.edu/sites/env-sci/module9/weblab9.htm#what%20topos%20show>

UTM definition and explanation from the USGS:

<http://mac.usgs.gov/mac/isb/pubs/factsheets/fs07701.html>

Catalog of USGS online lesson plans and activities from USGS on maps and map skills:

http://interactive2.usgs.gov/learningweb/teachers/lesson_plans.htm#maps

USGS fact sheet on topographic maps with explanations of all terms and symbols used:

<http://mapping.usgs.gov/digitalbackyard/topobkyd.html>

Site to search for geographic features, topographic maps, air photos, etc. for any place in U.S...Try it!

<http://geonames.usgs.gov/antform.html>

On maps: reading, working with, and making them:

<http://earthview.sdsu.edu/trees/TOPO.html>

Internet resources on geologic time:

Good websites for materials for geologic time activity:
<http://www.ucmp.berkeley.edu/help/timeform.html>
(best – has everything you would need for the activity)

Other grade-appropriate geologic time activities using different metaphors:
<http://www.uky.edu/KGS/education/activities.html#time>

<http://www.uky.edu/KGS/education/timeimag.html>
(simple line drawings of organisms for each time period)

USGS geologic time scales with links and online glossary of terms:
<http://geology.er.usgs.gov/paleo/geotime.shtml>

Outline of Nevada geologic history with a timeline of Nevada geologic events:
<http://www.nbmjg.unr.edu/dox/imfprice.pdf>
Also contains online geologic maps, field trip road guides, drainage maps and activities, Nevada mining history information and much more.

Good colorful, class-friendly Geologic Time Scale with links to related activities
<http://www.enchantedlearning.com/subjects/Geologictime.html>

Another geologic time activity – clearly presented, to do in class, on paper
<http://books.nap.edu/html/evolution98/evol6-f.html>

A Mine in the Making activity – useful websites:

Minerals Information Institute – resources on minerals, materials, their uses, properties, origins – ordering info for free posters:
<http://www.mii.org/helpforstudents.html>

NDOM website online Document “*State and Federal Permits Required in Nevada Before Mining or Milling Can Begin*” :
http://minerals.state.nv.us/forms/miscmining/SPL6_200302.pdf

State of Nevada Division of Environmental Protection: Bureau of Mining Regulation and Reclamation website:
<http://ndep.nv.gov/bmrr/bmrr01.htm>

NBMG online document “*Mining Claim Procedures for Nevada Prospectors and Miners*”:
<http://www.nbmjg.unr.edu/dox/sp6.pdf>

Other useful sites:

Frenchman Mountain virtual field trip by Steve Rowland at UNLV:
<http://geoscience.unlv.edu/pub/rowland/Virtual/virtualfm.html>

Map activity on Grand Canyon, damming, issues:
<http://school.discovery.com/lessonplans/programs/grandcanyon/index.html>