

## 2015 ROAD SCHOLARS RESOURCE LINKS

ALL LINKS ACTIVE AS OF 10 SEP 2018

The resource links provided below are categorized by the key event topics listed in the 2015 Road Scholars Event Rules.

### GENERAL ROAD SCHOLARS RESOURCES

[http://geology.isu.edu/wapi/geostac/Field\\_Exercise/topomaps/index.htm](http://geology.isu.edu/wapi/geostac/Field_Exercise/topomaps/index.htm)

An excellent short series of articles related to topographic map reading from Idaho State University. I recommend this as a first stop, particularly for coaches.

<https://www.youtube.com/watch?v=zqPMYGDxCr0>

Excellent YouTube video by Seth Horowitz with great demonstrations. The presentation emphasizes the reading of contour lines.

[https://www.youtube.com/watch?v=V0Q-FBwsBT8&list=PLQjMFAGz4Z2Y-7dLnkUBJo9GO\\_2pD2ii8&index=16](https://www.youtube.com/watch?v=V0Q-FBwsBT8&list=PLQjMFAGz4Z2Y-7dLnkUBJo9GO_2pD2ii8&index=16)

A simple YouTube video that reviews how to read a magnetic declination.

<http://www.ogs.ou.edu/pubsscanned/EP7.pdf>

A great introduction to topographic maps provided by the Oklahoma Geological Survey (PDF). However, some discussion is outdated.

<https://www.sciencenc.com/resources/middle-school/road-scholar/>

As always, the North Carolina Science Olympiad website has lots of great resources for this and all other Science Olympiad events.

### OBTAINING USGS TOPOGRAPHIC MAPS

<https://store.usgs.gov/map-locator>

Download USGS topographic maps in PDF free or order USGS topos from the USGS Store.

### TOPOGRAPHIC MAP SYMBOLS SHEET

<http://pubs.usgs.gov/gip/TopographicMapSymbols/topomapsymbols.pdf>

Official USGS PDF of topographic map features. Indispensable for the event.

### TOPOGRAPHIC MAP PROFILES

<http://www.youtube.com/watch?v=StDYPluk25M>

A great YouTube tutorial for creating a topographic map profile.

<http://serc.carleton.edu/mathyouneed/slope/topoprofile.html>

Written instructions for constructing a topographic map profile.

### SCIENCE PROCESS SKILLS

<http://www.nsta.org/elementaryschool/connections/200712TorresHandoutParentNSTAConn.pdf>

PDF from the National Science Teacher's Association that can serve as an excellent model for developing science process skills in students.

[www.longwood.edu/cleanva/images/sec6.processskills.pdf](http://www.longwood.edu/cleanva/images/sec6.processskills.pdf)

Excellent PDF that discusses many of the science process skills needed by students to succeed in this and other Science Olympiad events.

<http://www.eduplace.com/science/profdev/articles/valentino2.html>

Good strategies for developing science process skills in students by Catherine Valentino.

<http://www.pinterest.com/explore/science-process-skills/>

Pinterest pins for science process skills.

Updated and checked by Dan Haggarty [sciolydanh@yahoo.com](mailto:sciolydanh@yahoo.com) . Please contact me with updates and questions.