In Class
• Mineral Resources Lecture
• In Class Exercise – How to Make a CFL Light Bulb
  Minerals Education Coalition - http://www.mineralseducationcoalition.org/

In Class Exercise: How to make a lightbulb?
Objective: An important element in promoting stewardship of our earth resources is to educate students about what earth resources are involved in the making of everyday things. We will use manufacturing of a lightbulb to illustrate this point.

Exercise: You are an environmentally conscientious entrepreneur who want to build a compact fluorescent light bulb factory in Minnesota. One of the most important decisions is to figure out what materials you need and where to get them. Cost is a function of distance and the country supplying the material. Third world countries provide cheaper prices, but are notorious for poor environmental standards in mining and low wages.

Procedure: You will be assigned an earth resource that is needed to manufacture a CFL light bulb.

Using the USGS and MII websites, research the following information on your assigned resource.

Commodity - ___________________________
CFL component - ___________________________
Properties - __________________________________________________________________
Common Uses - _______________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
Geologic Occurrence - ___________________________________________________________
U.S Suppliers - _________________________________________________________________
Principal Global Suppliers - _______________________________________________________
Imports (% of US consumption) ____________________________________________________
Alternative Materials _____________________________________________________________
Other interesting Information ______________________________________________________
______________________________________________________________________________