

# Minerals in Your World Project

Geology 1P

Mr. Traeger

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Purpose

The purpose of this project is to become more familiar with the uses of the raw mineral materials in everyday items that you use. You will do research on the [Minerals in Your World](#) website and other websites on the Internet Investigations part of the class website to find out more about the mineral resources that go into making an item, or set of items, that you use every day.

## Assignment

Start out by going to the [Minerals in Your World](#) website. Pick one item or a set of items that you personally use every day. If you do a single item, that item must have at least 4 minerals that go into making it. If you pick an item with fewer than 4 minerals in it, then you will need to pick another item or items to make your total amount of minerals at least 4. For example: You could pick table salt (two minerals) and solder (two minerals) if that interests you. However, it is recommended that you stick with items that are related. If you pick an item that has many ingredients, such as electronics, you could pick out 4 or 5 main ingredients that go into making electronics and research those items only. If you wanted to pair up with another person, you could do 4 or 5 ingredients and your partner could do 4 or 5 ingredients and combine your project as one. Paired projects must have an additional page/slide describing in detail what each member of the team did and the projects should go above and beyond what could be accomplished by working alone. Many items are listed on the [Minerals in Your World](#) website and you can find ideas by clicking on the title %Examples.+If you want to do something that is not listed on the website, you will have to do an Internet search for the ingredients that go into making that object. Your job will be to create a project that addresses all of the items below.

## Project Breakdown

The following are the items that you will need to have in order to get a good grade on this project. You should use this rubric as a guideline for success. If you address everything it asks for completely, then you will get an A on this project.

Item	Points Possible	Items to be included
Title Page or Title Slide	5	Your name, period, date, and name of mineral (or minerals) you are researching. Pictures are always good, but they must be hyperlinked to the place you got them and they must be cited in your works cited page/slide. I will show the class how to insert hyperlinks.
Purpose of your object(s)	5	What are the uses for your object(s)? How does society benefit from having the object(s) around? All pictures must be hyperlinked and cited in the works cited! All quotes, summaries, paraphrases must be documented parenthetically and cited in the works cited page.
Raw materials overview	10	It is here that you will discuss the nature of the raw materials that go into making your item(s). Not all minerals may be listed. Instead, their chemical element name may be listed. You should tell me about all raw ore sources (raw minerals) that your element is mined from. What are their physical and chemical properties? What are their chemical compositions? Are they rare or abundant? You should also tell me what goes into mining your minerals. What are the processes used to mine the mineral? Are any human lives exploited in the process? What are the environmental issues associated with the mining of your raw materials, if any? All pictures must be hyperlinked and cited in the works cited. All quotes, summaries, paraphrases must be documented parenthetically and cited in the works cited page.
Locations where raw materials are mined	10	It is here that you should include maps showing me where in the world your raw materials are mined. There are numerous places linked on the geology links of interest page that show places where your minerals are mined. You can make interactive maps of these places using online GIS software and then copy these maps into your document. You may use the maps shown on the Minerals in your World page, but you must hyperlink them and cite them in your works cited page. All pictures must be hyperlinked and cited in the works cited. All quotes, summaries, paraphrases must be documented parenthetically and cited in the works cited page.
Economics of your mineral resources	5	What kind of prices do the minerals that go into making your object command on the world market? Are the resources needed to make your object plentiful or rare? How does this affect the price of the raw resources and the market price of the object that you are researching? All pictures must be hyperlinked and cited in the works cited. All quotes,

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		summaries, paraphrases must be documented parenthetically and cited in the works cited page.
Manufacturing process	10	Tell me about the manufacturing process for making your object(s). In this section, you should tell me where your object is manufactured, how your object is manufactured, and what the environmental impacts of its manufacturing are. If you have ever seen the TV show on the Science Channel called <i>How It's Made</i> , then you have a good idea of what I'm talking about here. If not, then go to the website link on the class website and watch a few episodes. All pictures must be hyperlinked and cited in the works cited. All quotes, summaries, paraphrases must be documented parenthetically and cited in the works cited page.
Useful Life	5	What is the useful life of the object that was produced? What will become of it when it is no longer useful? Where will it go to die? Can the individual mineral resources in it be recycled, or will they go to a landfill? What are the environmental/human impact aspects of the recycling or land filling of your object? There was a really good article recently in National Geographic Magazine about electronic waste that I will also post a link to on the website. All pictures must be hyperlinked and cited in the works cited. All quotes, summaries, paraphrases must be documented parenthetically and cited in the works cited page.
Implications and Conclusion	5	Now that you know what you know about your object, how will you make better choices about its purchase, use, and recycling/disposal? Are there better substitutes for the items you have chosen? Can you make better choices about how you purchase and use items made from raw materials? How does your dollar dictate how people and the environment are treated when it comes to harvesting and manufacturing goods from minerals? All pictures must be hyperlinked and cited in the works cited. All quotes, summaries, paraphrases must be documented parenthetically and cited in the works cited page.
Works Cited	10	It is here that you <b>MUST</b> use the MLA citation format to cite where you got your information. You should divide the works cited up to have subheadings for where you got your images and where you got the textual information for your report. All of your work <b>MUST</b> be written by you. I know the difference between student writing and plagiarized writing and I will enforce my plagiarism policies to their full extent, in addition to giving you a zero on the project if you do plagiarize. Word to the wise: <b>Don't</b> copy and paste text and expect to get a grade for it! If you got something from another place and you are using it word-for-word, it must be placed in quotation marks. If you are paraphrasing or summarizing, you must make sure that you are citing the author. The way to do this best is through parenthetical documentation. The Noodle Tools website that I placed under the Internet Investigations page should be used for making your citations correct in terms of their punctuation. See Mrs. Bozzani for the password. <b><u>I WILL NOT GRADE THIS PROJECT IF YOU DO NOT HAVE A WORKS CITED. DON'T EVEN THINK ABOUT TURNING IT IN WITHOUT ONE!</u></b>
Aesthetics and Creativity	10	Aesthetics (good looks) and creativity on your project are welcomed. I look forward to seeing what you can produce!

### Method of Conveyance

I would like this project to be done electronically and submitted electronically to the studentw server. I have posted a link to instructions for electronic submissions on the internet investigations page of the class website. **I will not accept anything on paper. Your project MUST be in an electronic format and should be scanned for viruses before turning it in.** This opens up avenues like Word, PowerPoint, a Web page file, or Flash animation sequence (if you know how to do that).

### Project Timeline

You will have the following dates to work on the project in class: Part of block day on 10/22 or 10/23/08, all period on Friday, 10/24/08, and all period on Monday, 10/27/08. You are on your own after that. The project will be due to the correct folder on the studentw server no later than Tuesday, November 4, 2008. Late projects will be docked 5 percentage points for each day that the project is late. Please go to the Internet Investigations page on the class website to find all of the links for the project. Remember that this **75 point project** goes into the test/project category. It will have a huge effect on your grade, so please take it seriously!