

## **Lesson Plan: Bone Disorders and Diseases**

### **Grade Level: 11-12**

**Objectives:** Students will create a Power Point presentation describing bone disorders while focusing on one bone disease. They will include statistics and answer the one of these questions: “ Is this a disease that needs or deserves research funding?” “ What is the prevalence of this disease in the United States?” or “What if any environment factors create, effect or enhance this disease?”

### **Big6 Skills:**

- Task Definition: Use pictures, short video clips, illustrations and other AV materials to enhance your data and content in producing a Power Point presentation of 15 slides or less. Use the last side for your bibliography.
- Information Seeking Strategies: Search the LiLI databases for those that apply to your topic. Use Magills’ Online Medical Guide and other search tools from the library home page. Try using the library catalog for up-to-date information on your topic.
- Location and Access: Determine key words and concepts for your topic and list resources you will use. Note how you will access each of these for information.
- Use of information: Read, view or listen to information on your topic. Take notes. Use Noodle Tools MLA Starter for your bibliography (on library homepage). In note taking, omit all words not essential to the meaning. Summarize when possible. If using free-web apply library handout for evaluating a site.
- Synthesis: Follow all guidelines. Add your own ideas or opinions when they fit. Your paper should not be just a summary of what is found in other resources. Promote your conclusions and provide a bibliography.
- Evaluation: Use teacher-provided checklist to determine if your work is complete. What skills did you learn from this research that you would use again? What sources were you unable to locate? Where they any problems with your presentation? What did you Power Point techniques did you learn from creating your presentation and viewing other classmate’s presentations?

### **Materials Required:**

- Access to computers, an up-to-date library account and course textbook, Smart board and projector for presentation in room or school lab, access to Power Point and the evaluation checklist.

**Time Required:** Three class periods in the library and a one-week deadline.

**Description of Activities:** The librarian and classroom teacher will be available during all library periods for instruction and modeling. Students may discuss and collaborate on content and usage of resources.

The 10-minute lesson will be on accessing Noodle Tools to create a bibliographical entry. Students will find a source they will use and go through the steps of creating a

bibliography using this site. An ongoing discussion will help students become aware of the variations in content for different types of sources.

**Assessment:** Teacher and librarian will discuss successes of this project and determine how it could be improved or expanded upon for next year. The success will be based on the presented projects and aspects of this research process that students were able to use effectively. The teacher and the librarian will examine the Big6 process from each of their viewpoints to determine better usage of the Big6 model for future use with this lesson.