**Bone Diseases and the Skeletal System**

**WebQuest Description**: This WebQuest will allow students to take a more detailed look at a particular bone disease and how the skeletal system is affected. Students will research their assigned disease and then create a corresponding Fakebook page on their topic.

**Grade Level**: 9-12

**Curriculum**: Science

**Keywords**: Skeletal system, bones, symptoms, treatment, diagnosis

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**Introduction**

You are going to explore a bone disease/disorder of your choosing and create a Fakebook page for this disease/disorder. Your page will need to be a way for people to learn more about your disease/disorder and how your disease/disorder interacts with other parts of the body.

**Tasks**

During this WebQuest, you are going to choose one of the following diseases/disorders to research. 
- Osteoporosis
- Bone Cancer
- Rickets
- Acromegaly
- Osteogenesis Imperfecta
- Melorheostosis
- Fibrodysplasia Ossificans Progressiva (FOP)
- Paget's Disease

Once you have chosen a disease or disorder, you will need to research your topic. You should research the answers to the following questions at the minimum:
- What is the disease/disorder?
- What are the symptoms of this disease/disorder?
- How does someone get it? And what age group does it usually affect?
- What does this disease/disorder do to the body?
- Are there any cures? If not, how (if at all) do people live with this disease/disorder? You will use the answers to these questions to help you in your process of creating a Fakebook page.

**Process**

You are going to create a Fakebook page for people to learn more about the disease/disorder you chose. You should provide the information you found in your research according to the questions listed in the "Task" section. Your Fakebook page should include the following...
- Background Information
- Job/Likes
- Dislikes
- Appropriate photos
- Minimum of 10 wall posts/comments/"likes"
- Minimum of 10 friends (should include at least 5 of the other diseases/disorders)

You can find the link to the Fakebook page below. BE SURE TO WATCH THE SHORT TUTORIAL!

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**Evaluation**

Your Fakebook page will be evaluated by your peers using the following rubric.

<table>
<thead>
<tr>
<th>Category and Score</th>
<th>Distinguished (3 pts)</th>
<th>Proficient (2 pts)</th>
<th>Progressing (1 pt)</th>
<th>Unsatisfactory (0 pts)</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background Information, Job, Likes, Dislikes</td>
<td>Page contains at least 6 CORRECT pieces of information about the disease/disorder</td>
<td>Page contains 4-5 CORRECT pieces of information about the disease/disorder</td>
<td>Page contains 1-3 CORRECT pieces of information about the disease/disorder</td>
<td>Page contains NO information about the disease/disorder or information included is incorrect</td>
<td>3 pts</td>
</tr>
<tr>
<td>Relevant Pictures</td>
<td>Photos are included for all friends and wall postings</td>
<td>Up to 5 missing photos for friends and wall postings</td>
<td>Up to 10 missing photos for friends and wall postings</td>
<td>More than 10 missing photos for friends and wall postings</td>
<td>3 pts</td>
</tr>
<tr>
<td>Wall postings, comments, &quot;likes&quot;</td>
<td>Page contains at least 10 postings, comments, or &quot;likes.&quot; At least one from each category should be present on the wall.</td>
<td>Page contains 7-9 postings, comments, or &quot;likes.&quot; May be missing one of the categories.</td>
<td>Page contains 4-6 postings, comments, or &quot;likes.&quot; May be missing two of the categories.</td>
<td>3 or fewer postings.</td>
<td>3 pts</td>
</tr>
<tr>
<td>Friends</td>
<td>At least 10 friends, 5 of these friends are the other diseases/disorders from the list.</td>
<td>7-9 friends, 3-4 of these friends are the other diseases/disorders from the list.</td>
<td>4-6 friends, 2 of these friends are the other diseases/disorders from the list.</td>
<td>3 or fewer friends.</td>
<td>3 pts</td>
</tr>
</tbody>
</table>
Congratulations! Now that you have finished this WebQuest and completed your Fakebook page, you should have a better understanding about some of the diseases and disorders that affect the skeletal system. Now you will be evaluating your peers based on the rubric provided in the "Evaluation" section.

This lesson additive was designed to fit the following curricular standards...Identify the major functions of the skeletal system and describe how this system interacts with other systems. Explain how human organ systems help maintain human health. Compare the structure of a human body system to a non-living system. and the following technology benchmarks...Evaluate and select information sources and digital tools based on the appropriateness to specific tasks. Locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources. Communicate information and ideas effectively to multiple audiences using a variety of media and formats. The beginning of this lesson is done in class. Students begin by brainstorming as many bones of the human body as possible. After doing this activity, students were given a blank diagram to properly label the bones of the human body. After completing this exercise, students would begin work on the WebQuest. In my particular school, each student has a personal computer and all students are comfortable using them. Some students had issues with the Fakebook site, but other students who were using the site successfully stepped in to help their struggling classmates.

**Standards**

Credits

Other

## Conclusion

<table>
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<td>Total Score</td>
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<td>12 pts</td>
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**Teacher Page**

Congratulations! Now that you have finished this WebQuest and completed your Fakebook page, you should have a better understanding about some of the diseases and disorders that affect the skeletal system. Now you will be evaluateing your peers based on the rubric provided in the "Evaluation" section.