Grade 8 Science: Body Systems Project

Objective: (2.4.c) Students will investigate and describe factors that affect the healthy function of the human respiratory, circulatory, and digestive systems.

Your Task: Explore a disorder, illness, or disease that affects the healthy function of ONE of the three major body systems.

Requirements:
1. Title/ Your Information
   - The name of the disease/illness/disorder, and your name(s) and class
2. Facts
   - Include 6 key points/facts about your chosen disease/illness, disorder
3. Symptoms
   - Include any short term, long term, or permanent symptoms of this disease/illness/disorder
4. Impact
   - What physical, emotional, and psychological impacts does this disease/condition have on individuals who have it?
   - How does this disease/illness/disorder impact other body systems?
5. Treatment
   - Give two possible treatments for this disease/illness/disorder
   - If there is no cure for your chosen disease/illness/disorder, provide some treatment options for symptoms that will ease the impact of this disease on patients
6. Prevention
   - List three key points on how this disease/illness/disorder can be prevented
7. Bibliography
   - Give any resources used to complete this project, and cite them properly (www.easybib.com)

Format:
You can choose from a number of different formats to present your information. Some examples include: PowerPoint, Prezi, essay, brochure, poster, skit, cartoon, video, comic strip, etc. Please see your teacher to determine if your chosen format is acceptable. Be creative!

Name(s):

Disease/Illness/Disorder:

Due Date:
Grade 8 Science Diseases/Illnesses/Disorders

The following are some diseases/illnesses/disorders that affect the three main body systems. You may choose one from this list or research your own.
(Make sure to check with your teacher!)

| Circulatory System | Heart Attack  
|                    | Angina Pectoris  
|                    | Varicose Veins  
|                    | Atherosclerosis  
|                    | Iron Deficiency Anemia  
|                    | Hypertension  
|                    | Aortic Aneurysm  
|                    | Vascular Disease  
|                    | Arrhythmia  
|                    | Coronary Artery Disease (Heart Disease)  
|                    | Endocarditis  
|                    | Congenital Heart Defect  

| Digestive System | Diverticulitis  
|                 | Hepatitis B  
|                 | Stomach Ulcers  
|                 | Tooth Decay  
|                 | Irritable Bowel Syndrome (IBS)  
|                 | Celiac Disease  
|                 | Crohn’s Disease  
|                 | Gallstones  
|                 | Wilson’s Disease  
|                 | Stomach Cancer  
|                 | Appendicitis  
|                 | Gastroesophageal reflux disease  

| Respiratory System | Emphysema  
|                   | Asthma  
|                   | Pneumonia  
|                   | Bronchitis  
|                   | Post Nasal Drip  
|                   | Lung Cancer  
|                   | Tuberculosis  
|                   | Atelectasis  
|                   | Pleurisy  
|                   | Hay Fever  

<table>
<thead>
<tr>
<th></th>
<th>Excellent 4pts</th>
<th>Proficient 3pts</th>
<th>Adequate 2pts</th>
<th>Limited 1pt</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6 Key points/facts</strong></td>
<td>Project contains at least 6 key points/facts about the chosen condition and relates them to the appropriate body system.</td>
<td>Project contains at 4-5 key points/facts about the chosen condition and relates them to the appropriate body system.</td>
<td>Project contains at 2-3 key points/facts about the chosen condition and vaguely relates them to the appropriate body system.</td>
<td>Project contains at 1 or less key points/facts about the chosen condition and does not relate it to the appropriate body system.</td>
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<tr>
<td><strong>Symptoms/Impacts</strong></td>
<td>Symptoms (short term, long term, permanent) are discussed in detail. Impacts of the condition are presented and connections are made to the affected body systems.</td>
<td>Symptoms (short term, long term, permanent) are listed. Impacts of the condition are given and connections to the affected body systems are vague.</td>
<td>Symptoms (short term, long term, permanent) are vague and not obvious. Impacts of the condition are present, but connections to the affected body systems are limited.</td>
<td>Symptoms (short term, long term, permanent) are missing or sparse. Impacts of the condition are difficult to see and connections to the affected body systems are limited or nonexistent.</td>
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<tr>
<td><strong>Treatments</strong></td>
<td>Detailed description and understanding of the treatment is communicated. Connections to the affected body systems are discussed in depth.</td>
<td>Basic description and understanding of the treatment is communicated. Some connections to the affected body systems are discussed.</td>
<td>Vague description and understanding of the treatment is communicated. Few connections to the affected body systems are discussed.</td>
<td>Limited or no treatment is discussed in the project. Connections are not made to body systems.</td>
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<td><strong>Prevention</strong></td>
<td>Prevention strategies are discussed in detail and make strong connections to the affected body system(s).</td>
<td>Prevention strategies are discussed, but lack detail, and connections to the affected body system(s) are introduced.</td>
<td>Prevention strategies are listed with little detail. Connections to the affected body system(s) are lacking.</td>
<td>Prevention strategies are vague or missing. Connections to the affected body system(s) are not present.</td>
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<tr>
<td><strong>Title and Bibliography</strong></td>
<td>Title is descriptive and bibliography follows correct format.</td>
<td>Title is proficient and bibliography follows correct format, but may have a few minor errors.</td>
<td>Title is vague and bibliography lacks information and formatting.</td>
<td>Title and/or bibliography is missing.</td>
</tr>
<tr>
<td></td>
<td><strong>Excellent 5pts</strong></td>
<td><strong>Proficient 4pts</strong></td>
<td><strong>Adequate 3pts</strong></td>
<td><strong>Limited 2pts</strong></td>
</tr>
<tr>
<td><strong>Connections and Creativity</strong></td>
<td>Project masterfully connects body systems to the chosen condition and is very detailed. Creativity and inquiry are obvious throughout the project.</td>
<td>Project makes connections to body systems the chosen condition. Creativity is consistent throughout the project.</td>
<td>Project lacks flow and connections between the body systems and chosen condition. Creativity is somewhat present in the project.</td>
<td>Project struggles to meet requirements and connections between the body systems and chosen condition are not obvious. Creativity is lacking in the project.</td>
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</tbody>
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Total:______/25