Peer-Review Activity

1. Group 10 followed the rubric guidelines and listed everything on a table of contents. Fully describing each section on what fluid principle they are going to demonstrate, and the design they are going to make. Both sketches and CAD drawings were present and a bill of materials was available with the prices for each material that will be used to create the concept.

2. Student learning outcomes:

1) Exceeds standards for a creative design. They clearly stated what the project demanded from the group and explained what principle they were going to tackle, and what the design consist of.

2) Meets Standards – The group lists their sources that they researched in order to get an understanding of what a vortex is and how is it created. One of their sources is a journal of fluid mechanics which is highly credible alongside the information regarding vortex formations.

3) Meets Standards- Group 10 provides detailed step by step instruction on how to build their design. They include a brief statement about the fluid mechanic concept they chose. Included the operation of the design. Then they provide a list of materials that will be required to create the design. They provid a sketch of the design and a CAD drawing illustrating how it should look.

4) Meets Standards – They clearly state what the concept is and how it will operate, as well as how the manufacture it.

5) Meets Standards – bill of materials has links to find the parts and prices on each item required for the design. They also provide a list of equipment needed to build the box. They clearly state the purpose of the project and what the students will gain from their design.

6) Exceeds Standard – deeply describes their reflection upon the class and what they learned throughout the semester and previous experiences.

3. Their design and manufacturing process is a good project to execute. Clearly demonstrates one fluid mechanic principle to teach the student. Gives the hands on experience for them to be invested in it, and learn from the process. Some of the equipment required will need for an adult to help with in which they forgot to mention that part. Group 10 also forgot to describe the environmental impact of their project. They also forgot to include calculations for the principle the elementary student will be learning about.

4. I think that the CEO would approve for this Bid because it presents a clear solution to the problem that was presented. Some things that the CEO maybe concerned for would be the environmental impact of the design. Whether or not the parts for the concept have any negative impact to the safety of humans and the environment. The CEO would also question if there are any calculations involved with the design.

5. They did an excellent job on listing the materials, sources, and explaining how the concept works along with directions to build it. They clearly stated the problem and presented a solution towards it. The group could have made a note saying that it would require an adult to help with the construction of the design. Since they listed tools such as saws, drills, pliers caulking gun, 3D printer, and deburrer. Tools that a 5th or 6th grader maybe familiar with but are dangerous to operate without the supervision of an adult. Other than that everything else is good and neatly presented.