BMAN 1110 Mr. Hanly & Ms. Jensen

Name._____ Date._____ Research due___
Research Report due_____
CAD Design due _____
3D Prototype due _____
Power Point Presentation due _____

**Slide Clamp Project**

**Description of Project:**

**Outline:**

1. Research current market and issues.
2. Design your device using Inventor (CAD program).
3. Build a Prototype.
4. One prototype will be selected from all classes based on design criteria.
5. Work with Mr. Fowkes class to build the mold of selected design.
6. Process the plastic and make the slide clamps.

**Design Criteria**

1. Slide clamp must occlude (stop) flow of the contents of an IV bag held at a height of 36 inches above the ground for 10 minutes.
2. When the slide clamp is un-activated and reactivate, fluid must flow again at at least 80% of original flow rate.
3. The slide clamp must not cut or damage the IV tubing.
4. The slide clamp should have as little mass as possible. (This is to reduce the amount of material required and cost in manufacturing).

**Research**

**Visit company websites to learn more information about specific slide clamps**. Search using the company name and "OEM" which stands for *Original Equipment Manufacturer.* If the company has a 'technical specifications" of "package insert" page, look at that for specific information. Record your 'reference' or 'citation' information while you are at the website!! Save this as an electronic file for your report and PowerPoint presentation. See http://www.noodletools.com/noodlebib/defineEntryMLA.php for an online citation generator that tells what information to include.

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**Name _____ date _____ period _____**

**Slide Clamp Research Interview Questions**

Name of person you interview_____ job title _____
Company _____ date of interview _____
Type of interview (*Personal*, *E-mail*, *Videoconference*, *Letter*, *Telephone*, or *Instant messenger)*.

- What type of slide clamp do you use?
- Who's product do you purchase?
- What do you like about the clamp?
- What do you dislike about the clamp?
- How much do you pay for the clamp?
- How many do you use per day/year?
- What design changes would you like to see?
- Have you had any documented complaints with the clamp?
- What is your tubing made of?
- What size tubing gives the most problems?
- Other Questions:

*"This product was funded by a grant awarded under the President's Community-Based Job Training Grant as implemented by the U.S. Department of Labor's Employment & Training Administration. The information contained in this product was created by a grantee organization and does not necessarily reflect the official position of the U.S. Department of Labor. All references to non-governmental companies or organizations, their services, products, or resources are offered for informational purposes and should not be construed as an endorsement by the Department of Labor. This product is copyrighted by the institution that created it and is intended for individual organizational, non-commercial use only."*