

Project Humdinger Exercise Rules – Traditional PM

1. You will be developing a product design and prototype for the Humdinger product.
2. Pay close attention to the requirements, like any project.
3. Elect a PM and a technical lead first!
4. You will get prototype parts after you turn in the project plan.
5. Each team will have a “sponsor”, who will be the overseer of the work. The only work they do is review the design and accept the deliverables. They will also ensure you follow the rules of the exercise. They **cannot** answer any questions.
6. Tools available are:
 - a. Scissors

Project Humdinger Customer Requirements

- Req. 1: The product will be an electro-mechanical device.
- Req. 2: The product will fit into a closed brown paper bag with a single string protruding from the bag.
- Req. 3: The primary function of the device will be to hum when the string is pulled, then ding once when the string is released.
- Req. 4: Manufacture will be outsourced to China and is guaranteed at \$0.30 per Humdinger, no matter what the construction.
- Req. 5: Due to an oversupply of certain materials, the product can only use the materials provided in the Bill of Materials worksheet. You may use only these materials.
- Req. 6: You must fill out a completed project plan BEFORE you start any design work.
- Req. 7: You must follow the project plan exactly.
- Req. 8: You must conduct a design review of the completed design with your team and sponsor before you start any construction of the prototype.
- Req. 9: The deliverables of this project are an updated design, the bill of materials, and a working prototype.
- Req. 10: The product must work 90% of the time when tested by the sponsor after delivery of the prototype.

Note: These requirements are subject to change.

Project Humdinger – Change in Requirements

- Req. 3: The primary function of the device will be to **always hum when the string is not pulled. When the string is pulled, stop humming. When the string is released, then ding once and start humming again.**
- Req. 5: Due to an oversupply of certain materials, the product can only use the materials provided in the Bill of Materials worksheet. You may use only these materials.
Note: The clothespins are no longer available for use.

Project Humdinger Bill of Materials

Project Team: _____

Item Name	Max Qty	Qty used
Battery	1	
Battery holder/connector	1	
Motor	1	
Wire – 60 cm	1	
Short stick	4	
Medium stick	4	
Long stick	4	
Wooden hub	4	
Large wooden board - predrilled	1	
Small wooden board	1	
Clothespins	2	
Rubber bands	10	
Binder clips	4	
String – 100 cm	1	
Paper clips	4	
Bell	1	
Tape – 50 cm	1	

Project Humdinger Design

Project Team: _____