

# Check list - Production Analysis Report

## Must Include:

### Introduction (5%)

- Explanation of the task 2pts\_\_\_\_\_
- Original product 1pts\_\_\_\_\_
- Material selection 2pts\_\_\_\_\_

### Limitations on Original Product (10%)

- Original material 2pts\_\_\_\_\_
- Problem with original material 8pts\_\_\_\_\_

### Critique of Original Product (30%)

- Forces on the product 7pts\_\_\_\_\_
- Conditions the product is used in 7pts\_\_\_\_\_
- Manufacturing process most probably used 9pts\_\_\_\_\_
- Conductivity needs 7pts\_\_\_\_\_

### Material Selection (30%)

- Material choice 2pts\_\_\_\_\_
- Alternative material choices 2pts\_\_\_\_\_
- Reasons for selection (refer to Pros and Cons hand out) 10pts\_\_\_\_\_
- Describe new materials manufacturing processes 6pts\_\_\_\_\_
- Provide a cost analysis
  - how much the material costs 2pts\_\_\_\_\_
  - how much is used 2pts\_\_\_\_\_
  - compare it to original material 3pts\_\_\_\_\_
  - explain why you picked it even if it was more expensive 3pts\_\_\_\_\_

### Explanation of Prototype or Drawings (10%)

- Explain your choice of model (drawings or prototype) 1pts\_\_\_\_\_
- Explain the process of making it 9pts\_\_\_\_\_

### Evaluate yourselves (15%)

- What do you think you did well in this whole project 7pts\_\_\_\_\_
- What do you think you would change 8pts\_\_\_\_\_

**Total = \_\_\_\_\_**