**The 10 Steps of the Engineering Design Process**

PowerPoint Questions

Directions: When you have finished looking at the PowerPoint for this activity, place the number of each step in the problem solving process next to each description.

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| --- | --- |
| Description | Step Number |
| Item is tested for performance. |  |
| Develop creative ideas. |  |
| Identify the background of a product. |  |
| A long list of ideas is developed. |  |
| Use resources to research. |  |
| Final design revisions. |  |
| Understand the scope and nature of the product. |  |
| Document specifications and measurements. |  |
| Establish primary goals. |  |
| Assess product weaknesses. |  |
| Evaluate the results of testing. |  |
| Production begins. |  |
| Eliminate duplicate ideas. |  |
| Make suggestions for future improvements. |  |
| Make the decision. |  |

Write the name and number of each step described by each statement.

|  |  |
| --- | --- |
| Statement | Step name and number |
| Develop goals and possible solutions to problems. |  |
| Get rid of overlapping ideas or un-needed information. |  |
| Survey purchasers of your product to get their input. |  |
| Build your product and get it to the consumers. |  |
| Ask “Why is this product needed?” |  |
| Ask “Who would benefit from or buy this product”? |  |
| Develop as many creative ideas as possible. |  |
| Build a model or mock-up of the product for evaluation. |  |
| Understand the scope and the nature of the problem. |  |
| Test each model against working criteria and goals. |  |

Complete the header section with your name and block number.

Save as design questions, initials, block. Submit to Canvas for grading.