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| --- | --- | --- |
| Name: | Period: | Date: |
| Date Started: | Due Date: | |
| Group Members: | | |
| Advanced Design Applications  Learning Cycle 2: Manufacturing Unit 4  File 1.4 Primary Challenge Background | | |

**Primary ChallengeBackground –Learning Cycle 2**

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| **Background** | Take what you have learned from this learning cycle and begin thinking about ways that you may control quality in your soap-dispensing device. Use the constraints and requirements in the *Primary Challenge* to help choose what is important to your product. Do you want to have a more expensive product with higher quality or do you want to dispense a soap that is reasonably priced? |
| **What to Do** | * You will work with your *Primary Challenge* team members. * Create diagrams or other suitable illustrations that describe at least three different solutions to the *Primary Challenge* that are customer friendly. Brainstorm possible processes that will be needed to create your soap-dispensing device. * Choose the materials that you will use for each proposed process during the solution of the *Primary Challenge*. * Identify the specifications for quality control that will guide your facility in at least one of the production steps and in producing the final product. Brainstorm possible ways to ensure that your specifications are being met. Will your solution check every product? Will it randomly check for quality? List your team’s specifications with a description or illustration of your “go/no go” gauge. * Calculate the final cost of the soap-dispensing device for the consumer, keeping in mind the different costs, including quality control. |