**Activity Worksheet Key**

Teachers and facilitators - The table provided below represents significant areas of improvement that were developed into this culminating activity. You can check student progress against these problems and solutions to ensure that student groups are on track with this challenge.

**Problems**   **Solutions**

|  |  |
| --- | --- |
| **1)** Order of the workstations.  **2)** Complexity of the product (boat or helicopter).  **3)** Distribution of work between workstations.  **4)** Too much Work-In-Process (WIP). | **1)** Change the order of the workstations to make the flow of work make sense.  **2)** Remove Lego pieces from the product to decrease the cost of making the planes, which will increase the profit.  **3)** Even out the work by removing steps from the overworked stations and adding steps to the workstations that had less work.  **4)** Implement a Just-In-Time Pull system of manufacturing works if the workstation immediately after them has no WIP in front of them. |