**Pulley Islands – Learning Dimensions Framework & NGSS**

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| **DIMENSION** | **DESCRIPTOR** | **Observed** | **Notes** |
| **Initiative and Intentionality** | Learners take intellectual and creative risks; work without a blueprint | Y OR N |  |
| **Problem Solving and**  **Critical Thinking** | Learners engage in troubleshooting through iteration | Y OR N |  |
| **Creativity and Self Expression** | Learners engage in playful exploration | Y OR N |  |
| **Social and Emotional Engagement** | Learners build on or remix the ideas or projects of others | Y OR N |  |
| **Conceptual Understanding: NGSS DCI**  **3-PS2-1**: Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object. | Learners are able to identify and that objects in contact exert forces on one another.  Learners observe the strength and direction of the forces at work in their pulley system | Y OR N |  |
| **Conceptual Understanding: NGSS practices** | Learners ask and refine questions that lead to descriptions and explanations of how the world works and which can be empirically tested | Y OR N |  |
| **Conceptual Understanding: Crosscutting Concepts** | Students identify cause and effect relationships | Y OR N |  |