**Ping Pong Ball Retriever Engineering Challenge Worksheet**

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| **ASK: What problem are you being asked to solve? What is the need? What are the constraints?** |
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| **RESEARCH: What are common Egyptian materials?** |
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| **IMAGINE: Sketch at least TWO different designs for your reusable prototype.** | |
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| **PLAN: Get together with your engineering group and sketch out one prototype. All group members’ sketches should be the same.** |
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| **CREATE: Work with your group to build your first prototype following the rubric guidelines.** |

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| **TEST and IMPROVE** |
| With your teacher's approval, pick up a tub of ping pong balls and get started testing and improving. |

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| **Final Rubric** |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **Expectation**  **Not Met** | **Expectation**  **Partially Met** | **Expectation Met** | **Score** | | **Explain how you**  **used the engineering design process** | 0 | 1 | 2 |  | | **Picks up balls** | 0 | 1 | 2 |  | | **Users’ needs**  **considered** | 0 | 1 | 2 |  | | **Use of common**  **Egyptian materials** | 0 | 1 | 2 |  | | **Aligns to at least 2**  **SDG goals** | 0 | 1 | 2 |  | |