Projectile Launcher Mission Worksheet

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Name: _____
Team Members: _____
Date: _____

Mission Brief 🎯

Target Distance: 60 meters

Use the PhET simulation to successfully hit the target with a projectile. Experiment by adjusting angle and initial velocity to find the best combination.

Part 1: Trial and Error Table

Trial	Angle (°)	Initial Velocity (m/s)	Did You Hit the Target? (Yes/No)	Notes (What You Noticed)
1				
2				
3				
4				

Part 2: Final Strategy

1. Best Angle: _____
2. Best Initial Velocity: _____
3. Explain why this combination worked (in physics terms):

4. If your launcher was on the Moon, how would your angle or velocity change? Why?

Part 3: Reflection

What challenges did your team face in hitting the target? What did you learn about projectile motion from this activity?