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| **Design Brief** |

**Project: Compound Machine Design-VEX**

**Target:** Our machine has to lift a text book 3 inches up

**Designer:** America J-Mtz, Meghan S., & John

**Problem Statement:** We have to build a compound machine. It has to be made of 3 different simple machines. The applied forcé has has to be provided by a single human input. The Compound machine has to have a mechanical advantage greater than one.

**Design Statement:** We are planning to build a compound machine using a pulley system, a lever, and a incline plane.

**Constraints:**

1. 3 days to build design
2. Limited suppliess