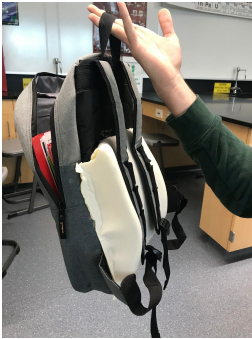


Project Name: LNJ Packs

Group Members: Lucas Garcia Cornejo, Nick Ahantab, Josiah Polhemus

ABSTRACT: Many people who use backpacks daily are faced with the inevitable problem of back pains. Carrying heavy backpacks that do not support the users back well leads to many issues with prolonged use such as scoliosis, herniated disks, and rounded shoulders. Backpacks that do support the back are rather pricey and very bulky/large. LNJ Packs intends on creating a backpack that support the users back no matter how heavy the load is, provides comfort, and is affordable. We create a backpack using moldable plastic and molded it to the “average” back curvature (as told by a biology teacher). After attaching the mold to the back of the pack, we surveyed students and asked for their opinions on the device, and received very positive feedback. For the future of LNJ Packs, we intend on creating various color schemes for the bag, as well as creating bigger ones, and adding attachable side straps for extra support.

By using moldable plastic and a base backpack, we attached the molded back support to the back using multiple layers of foam to ensure comfortability as well as breathability of the backpack.



We tested the backpack in various ways including testing its durability by throwing up from incremental heights.

TESTING FOR:	RESULTS:
1) Likeliness to wear or purchase backpack -	76% of stakeholders said they would wear this backpack
2) Initial thought and comfortability -	Over 75% of stakeholders thought the backpack was far more comfortable than their current backpack
3) Durability -	Withstand multiple high altitude drops, and can withstand the environments of school

Questions: