Empowering High School Students to Invent the Future with STEM

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Excessive testing does not prepare students to invent the future.
1. Empower students with Making
Make: Wearable electronics for pets
Fostering a culture of additive innovation

1. Inspiring community
2. Sharing & learning recipes
3. Iterating on designs
4. Sharing artifacts
2. Embed real-world project-based learning
Make: App-controlled sprinkler system
3. Connect STEAM and culture
STEAM Machines Camp @ Navajo Nation
Recommendation

Culturally-contextualized project-based curriculum that empowers all students to make a difference in their communities.
Impact on Students

1. Helping students apply STEM to make a difference in their communities
2. Broadening pathways for underrepresented minorities in STEM
3. Developing both creative confidence to take risks and technical proficiency in using rapid prototyping tools
4. Engaging students in real-world problems that matter
Inspiring a generation of STEM innovators
• Problem: Excessive testing does not prepare students to invent the future

• Recommendation: Create culturally-contextualized project-based curriculum that empowers all students to make a difference in their communities
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