



Catalina Foothills Unified School District #16  
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## **BOARD AGENDA ITEM**

**ITEM NO:** 1.5

**BOARD MEETING DATE:** Tuesday, October 14, 2025

**OPENING ITEM:** Deep Learning Showcase (A Celebration of Quality Teaching)  
– Innovation Takes Flight: High School Mentors Integrate 3D  
Printing into Third Grade Science

**SUBMITTED BY:** Julie Farbarik, Director of Community Relations

**PRESENTED BY:** Denise Bartlett, Superintendent

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Presented for the governing board's information is the CFSD Deep Learning Showcase – Innovation Takes Flight: High School Mentors Integrate 3D Printing into Third Grade Science.

CFHS Pioneer Robotics students integrated 3D printing into the third-grade science unit on animal adaptations, turning their classroom into a makerspace buzzing with ideas. Third graders first explored how beak shapes and wing designs help birds thrive. They sketched birds and nests on graph paper, using measurement tools to keep their designs to scale. Then, with the guidance of Pioneer Robotics students, their ideas were brought to life using Tinkercad software and 3D printers. What began as drawings became tangible creations that students could hold, explain, and take pride in. The experience also gave our high school mentors a chance to coach, troubleshoot, and inspire the next generation of robotics engineers. This project is a vivid example of CFSD's deep learning in action: relevant, hands-on, and engaging every learner.

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**RECOMMENDED MOTION:** Information Item