



Deeper Learning



Department of Innovation March 19, 2024

CSD Mission and Vision

Mission Statement

The mission of Cheltenham School District is to provide inspiration and resources for every student to achieve academic excellence and pursue their highest potential by creating an equitable and inclusive community that fosters social and emotional well-being and a passion for learning.

Vision Statement

"Belong, Engage, Seek Justice" Cheltenham School District is a community where all students know they belong, engage and excel in their learning experience, and are prepared to act as champions of social justice.



To the innovative teachers and inspiring students who showcased their work this evening: Thank You from the Department of Innovation and everyone at **CSD**





Tonight's Showcase

Teacher	Grade(s)	Topic
Gerald Aungst	3 - 4	Design thinking: Ocean Plastics and Robot Petting Zoo
Ryan Morrison	3 - 4	Edison Bots & 3d Printing
Kristin Krause	3 - 4	Rubberband Car Racers
Maria Hobson and Kristin Krause	4	Wyncote Roarin' Robots Team
Therese Rothenbach and Sarah House	6	Thermal Energy- Student created thermal cups.
Isaac Stanford	7	Chimera Project; 3D printing; Native American Removal Unit
Omar Rose	8	Moon Phase Observatories Project, Polygonimals, Body Part Rebuilding. Robotics First Tech Challenge
Andrea Anderson	8	Geometry class clock project
Andre Clark	8	Community Engagement for the Promotion of STEM
Mike Kwas, Maria Canela and Johanna Cella	9	Documentary and City Project
Jessica Louie, Steve Janke and Andrew Filipczak	10	Hero Project: Comic Books
Karen Shaffran	12	PBL Farmacy
Brian Smith and Elaine McGoldrick	9 - 10	Highlight various independent projects, past and present
Sarah Putterman	9 - 12	Community service in STEM (Girls Who Code, hackathons, CS in Ed week, STEM day, etc.)
Karen Shaffran	9 - 12	CHS Recycling Initiative



The Department of Innovation

Dr. Brian Reilly: Supervisor of S.T.E.M.

Dr. Matthew Pimental: Supervisor of Professional Learning and

Gifted Education

Rachel Girman: Data and Secondary Curriculum Specialist

Kaity Ferraro: Data and Elementary Curriculum Specialist

Kevin Murphy: Instructional Technology Teacher Leader

Tami Flood: Instructional Technology Teacher Leader

Lisa Rock: Technology Staff Developer

Kathleen Silver: Administrative Assistant

In Collaboration with ...

Facilities Department
Technology Department





AGENDA

- → Why Change?

 Taking a look at the world our students will enter
- Deeper LearningOne way we can prepare our students
- → Deeper Learning in CSD Where are we now?
- → Deeper Learning in the Future
 Where we aim to be



Times Have Changed

In 2000, the top 10 highest paying salaried positions all required traditional educational certification (engineer, airline pilot, lawyer etc.). Today, aside from medicine, most of the highest paying salaried positions (1) did not exist 10 years ago, and (2) have no traditional educational pathway.

How might we respond?

Top Jobs in 2000

Surgeon

Lawyer

Airline Pilot

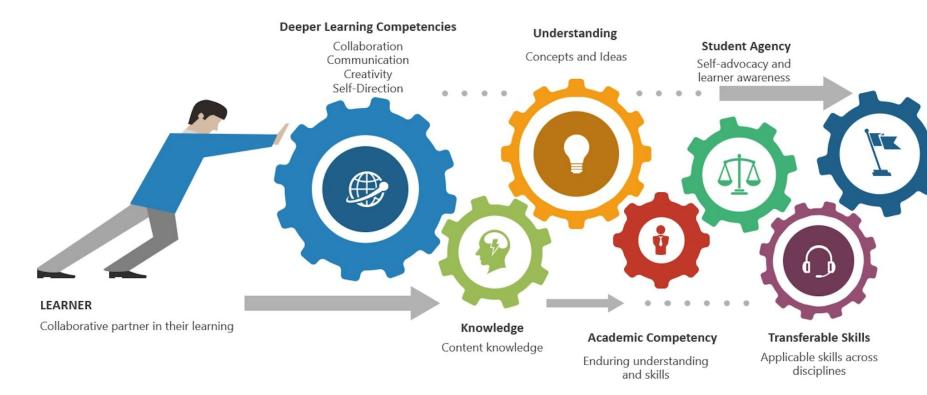
Top Jobs in 2023

Al Architect

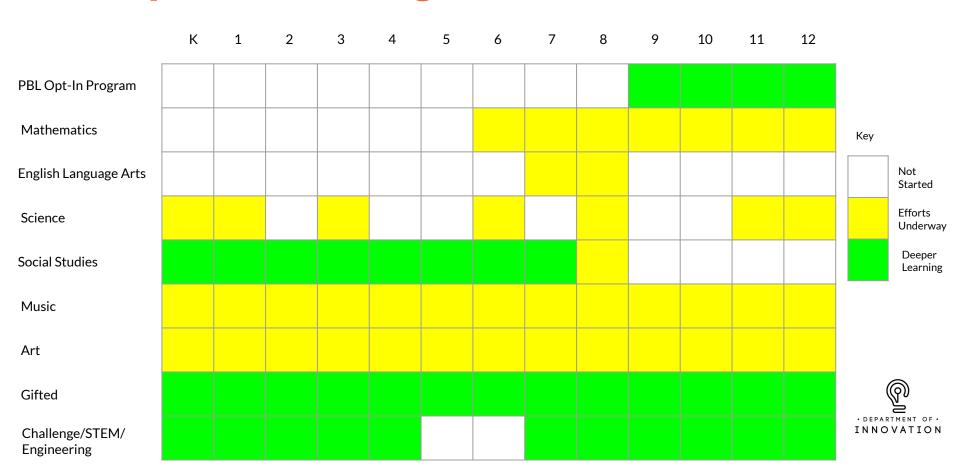
Chief Technology Officer

Blockchain Developer

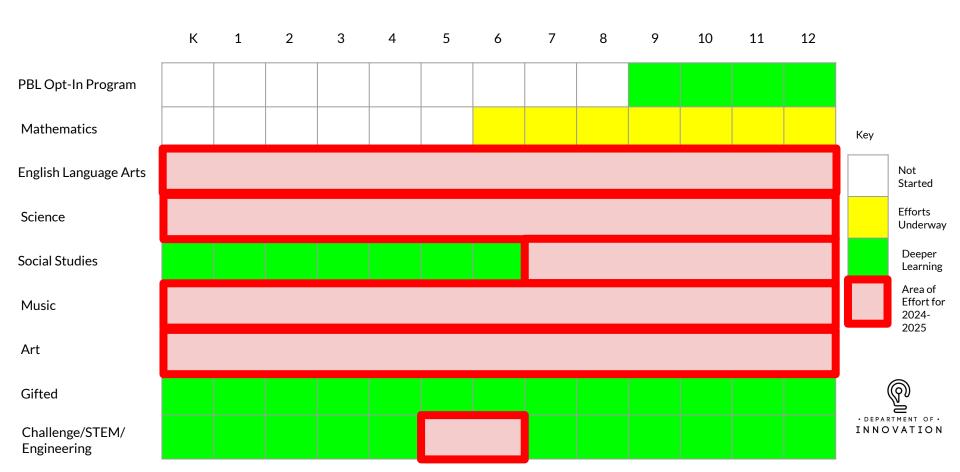
Deeper Learning develops students' ability to think critically and solve problems through (1) collaboration, (2) communication, (3) creativity and (4) self-direction.



Deeper Learning in CSD



Opportunities in 2024-2025



SEVEN STRATEGIC PLAN PILLARS

2023



Deeper Learning and the Strategic Plan

WHERE EXCELLENCE BEGINS WITH EDUCATION

The mission of Cheltenham School District is to provide inspiration and resources for every student to achieve academic excellence and pursue their highest potential by creating an equitable and inclusive community that fosters social and emotional well-being and a passion for learning.

Continuous School Improvement



Portrait of a Graduate

Partnerships



OCIAL EMOTIONA & MENTAL HEALTH

Implement a system of in-school services and supports addressing social emotional and montal health.



DIVERSITY, EQUIT BELONGING, &

Integrate diversity equity, belonging, and inclusion into



CULTURE FOR

STUDENT SUCCESS

Promote and sustain

healthy relationships

affirm all scholars, and

create a space that is

conducive to 21st

Century teaching and learning.

COMMUNICATIONS

Develop and promote CSD's unique brand

Develop and sustain diverse structures to cultivate mutually beneficial relationships



INFRASTRUCTURE FACILITIES, & FINANCE

Analyze and compare options for appropriate learning and activity spaces through multiple lenses

Develop and implement a system for continuous

Examine effectiveness of resource allocation considering equity, studen Maximize learner autonor and capacity to thrive.

> Study the eff sctiveness of systems, procedures, and policies.

Provide a consistent school environment that is safe and welcoming to all, promotes and sustains healthy relationships, affirms all scholars, and creates a space that is conducive to 21" Century teaching and learning. Implement systems and procedures to streamline and formalize communications process.

> Increase the district's industry, agency, and community partnerships.

Alleviate barriers to school engagement and academic achievement.

Implement curricula that include academic, life, and character skills through deeper learning experiences That combination of thought and action defines creative confidence: the ability to come up with new ideas and the courage to try them out.

- Tom Kelley -



Questions?

APPH

Appendix

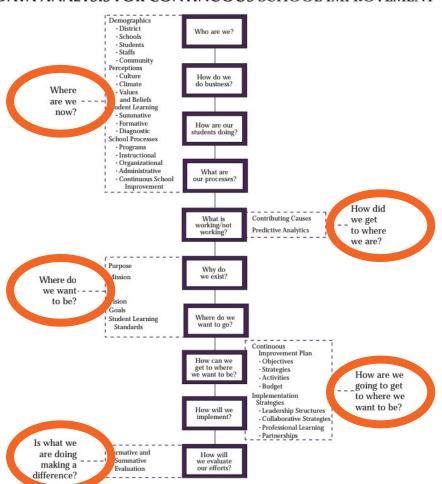
Item 1: Continuous School Improvement and Deeper Learning

Item 2: Understanding by Design Curriculum Writing Process and Deeper Learning

Item 3: Situating the Challenge Program within the K-12 continuum

Item 4: Partnerships for Deeper Learning

DATA ANALYSIS FOR CONTINUOUS SCHOOL IMPROVEMENT





Improvement (CSI): We use the CSI

process to systematically integrate Deeper Learning into our Curriculum & Instruction

UNDERSTANDING BY DESIGN A "Backwards" framework for Instructional Design

1. Identify Desired Results



2. Determine Acceptable Evidence



3. Plan Learning Experiences and Instruction

Big Ideas and Skills

- What should participants hear, read, view explore or otherwise encounter?
- What knowledge and skills should participants master?
- What are big ideas and important understandings participants should retain?

Culminating Assessment Task

- How will I know if participants have achieved the desired results?
- What will I accept as evidence of student understanding and proficiency?

Learning Events

- What activities will equip participants with the needed knowledge and skills?
- What materials and resources are best suited to accomplish these goals?

Sources:

Bowen, Ryan S., (2017). Understanding by Design. Vanderbilt University Center for Teaching. Retrieved from https://cfr.vanderbilt.edu/understanding-by-design/

UbD in a Nutshell. (n.d.). Retrieved from http://fordham.libguides.com/ld.php?content_id=11270511



Curriculum Design:

The Understand by Design curriculum writing process is perfectly aligned with the aims of Deeper Learning

K-4 Challenge Consultant







Challenge Program:

The "Challenge Program" refers to the STEM experiences offered to <u>ALL</u> students in grades K-4.















