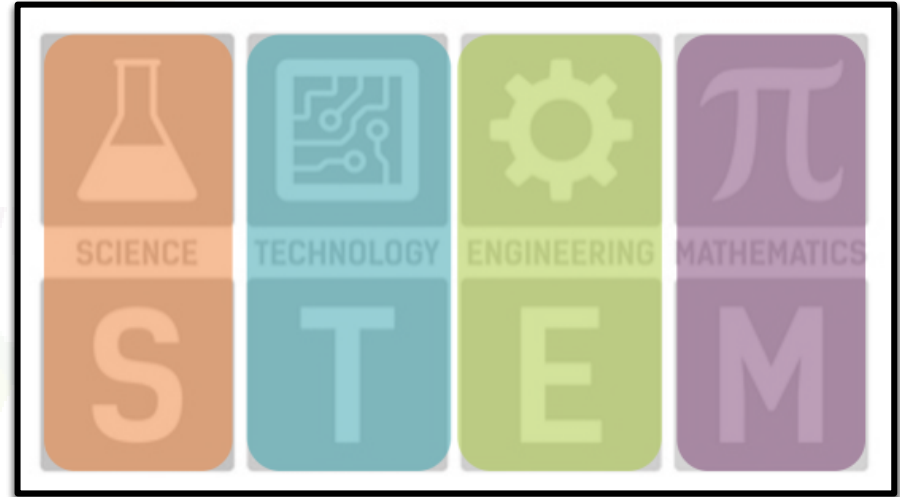


Curriculum and Instruction STEM School Board Presentation

THE
FUTURE
IS
NOW



Foundations • Talent • Learning



ECTOR COUNTY INDEPENDENT SCHOOL DISTRICT

Vision

OUR Students... THE Future!

Mission Statement

The mission of Ector County ISD is to inspire and challenge every student to be prepared for success and to be adaptable in an ever-changing society.

C&I Math, Science and Computer Science 2021-2022

Presented by:

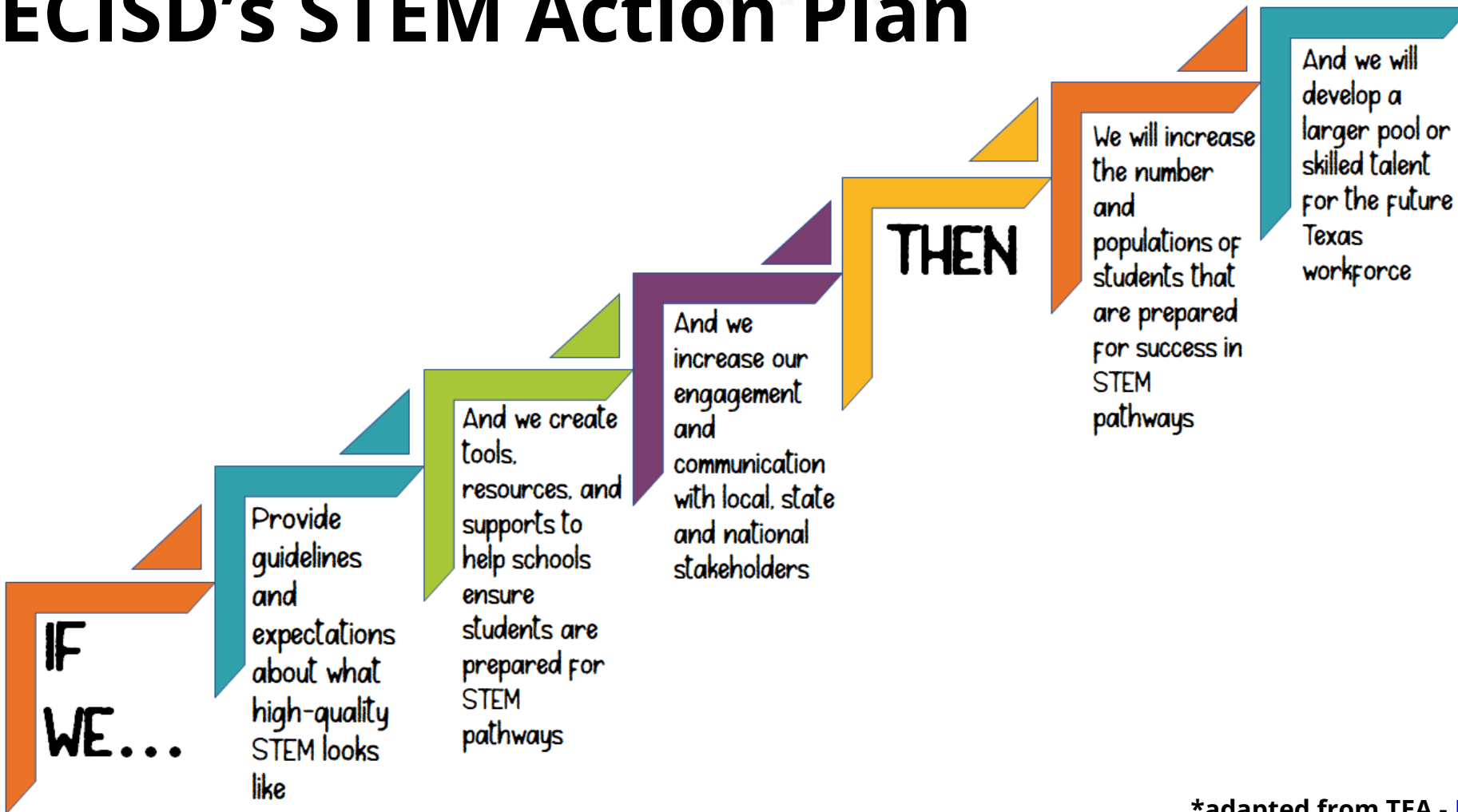
Lisa Wills, Executive Director

Ashley Sellers, Elementary Math Coordinator

Melissa Cooper, Secondary Math Coordinator

Caitlin Couch, PreK-12 Science Coordinator

ECISD's STEM Action Plan



*adapted from TEA - [LINK](#)

In Texas, there are currently 37,793 open computing jobs with an average salary of \$94,779.

Yet, there were only 4,160 graduates in computer science in 2018 and only 46% of all public high schools teach a foundational course.

ECISD's STEM Action Plan

IF WE...



Provide guidelines and expectations about what high-quality STEM looks like

And we create tools, resources, and supports to help schools ensure students are prepared for STEM pathways

And we increase our engagement and communication with local, state and national stakeholders

THEN

We will increase the number and populations of students that are prepared for success in STEM pathways

And we will develop a larger pool of skilled talent for the future Texas workforce

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GRADE LEVELS	MATHEMATICS SCHEDULE BREAKDOWN:	TOOLS FOR PLANNING INSTRUCTION	APPROVED INSTRUCTIONAL RESOURCES FOR WHOLE GROUP	APPROVED INSTRUCTIONAL RESOURCES FOR SMALL GROUP
K-2nd grade Math Minutes: 100	<ul style="list-style-type: none"> Do Nows- (10 min) Do <u>nows</u> activities should be used to activate students' learning for the lesson. This is a good time to utilize TEKS based supplemental materials such as Lonestar Math, Fast Focus, and Pearson Reteach. (We are currently in the process of purchasing Lonestar Math for the District). Number Talks-(5-10min) Number Talks are brief discussions that focus on student solutions for a single, carefully chosen mental math computation problem. Students share 	<ul style="list-style-type: none"> ECISD Math template Mathematics Instruction Breakdown TEKS Resource Year at a Glance Kindergarten Math YAG 1st grade Math YAG 2nd grade Math YAG 2020-2021 Math Unit Overviews SAWAS/TEKS Resource Alignment Documents Kindergarten 1st grade 2nd grade Virtual Manipulatives Continue Guidance on MAP Growth Data PLC Process Create an Action Plan using 	Warm Up- Math Tasks/Resources Number Talks <ul style="list-style-type: none"> Number Talks Hand Signal Poster-English Number Talks Hand Signal Poster-Spanish Number Talks 101 Number Talks breakdown/Resource page Number Talks break down strategies Kindergarten Number Talk 2nd grade Number Talk SAWAS (Pearson) <ul style="list-style-type: none"> Beginning of Unit Placement tests Aligned lessons (See SAWAS/TEKS Resource Alignment Documents) Visual Learning Videos Review what you know-reinforcing the content Daily TEKS Review Topic Assessments Imagine Math = (teacher led)	SAWAS (Pearson) <ul style="list-style-type: none"> (Differentiation) Reteach to Build Understanding Math Diagnosis and Intervention System 2.0 Do the Math Acceleration (Coming Soon) What to do with the students who are not being pulled back in small groups: Imagine Math- 45-60 minutes per week Imagine Math Success Plan 2020-2021 Imagine Math Facts-10-20 minutes per week

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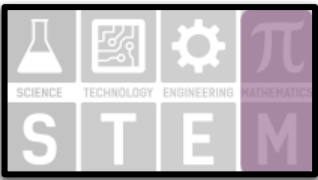
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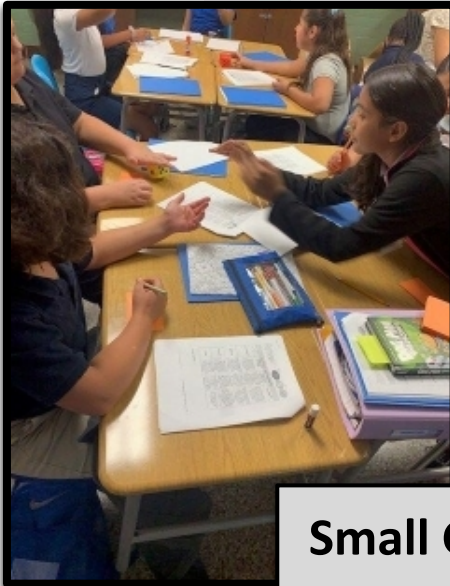
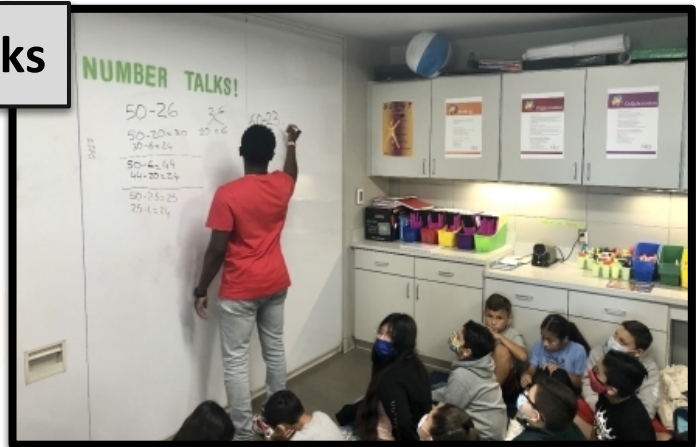
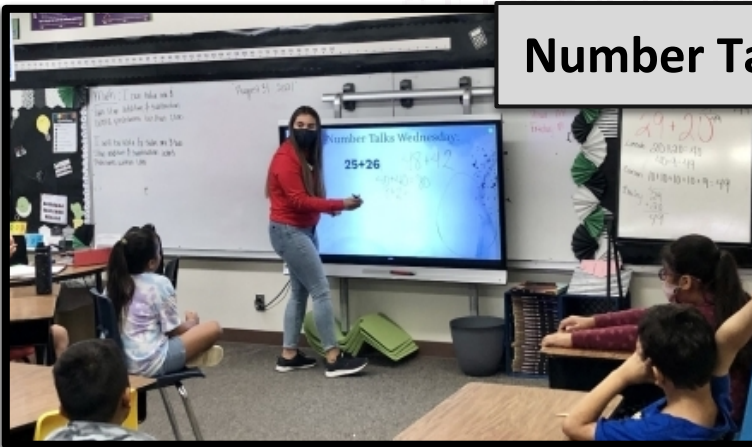
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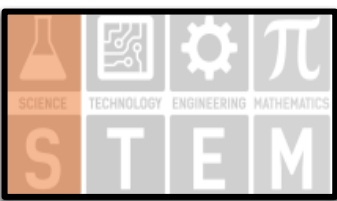
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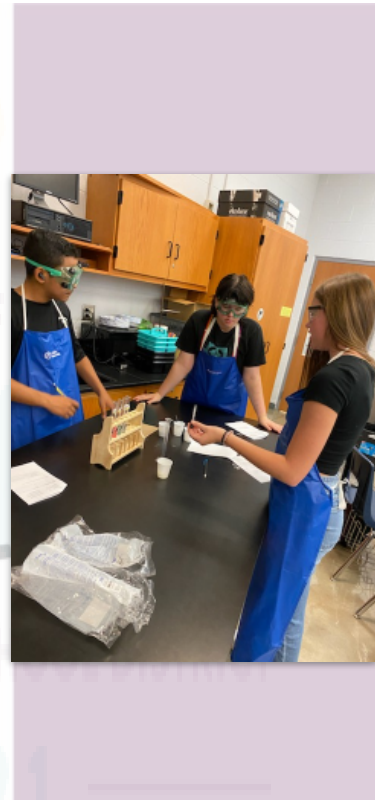
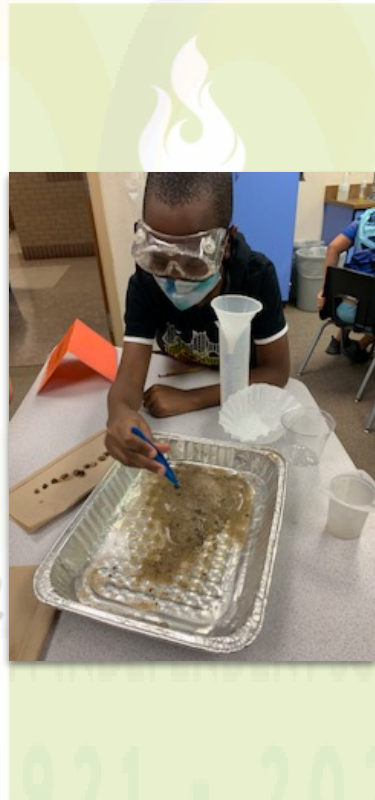
Number Talks



Small Groups



District Science's Learning Journey



ECISD's STEM Action Plan

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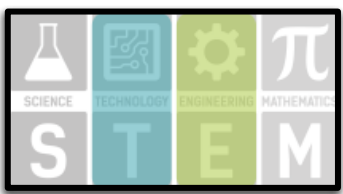


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District Computer Science and Robotics Support



We needed to find a partner and spread the word:

- Our Partner: CS is Elementary
- Our Plan: Host a family friendly event that addressed the following:
 - What is computer science?
 - How will it benefit my child?
 - How is the district going to show parents what this will look like at their child's campus?

FAMILY NIGHT
Coding - Robotics - Gaming

Who: All ECISD Elementary Students and Family
When: All PreK-5 Students - April 29th from 6:30-7:30
Sign Up Sheet: [Click Here to Sign Up](#) - session link to follow
Why: By having your child engage in a computer science and robotics program, your child will become a better thinker and problem solver. This program shows them that learning can be informative, fun and interesting all at the same time.
Make sure that your ECISD issued device is fully charged and that you have a stable internet connection.

Register for a chance to win a Dash Robot!

Questions: Please Contact the District Science Coordinator - Caitlin Coash
 432.456.8513 or caitlin.coash@ectorcountynj.org

ECISD
 Ector County Schools

ECISD's STEM Action Plan

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District Computer Science and Robotics Support



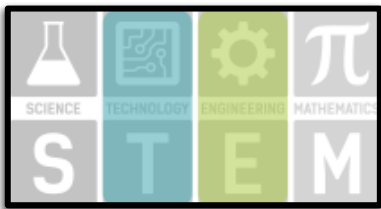
Pilot Schools:

- Ireland
- Reagan
- Gonzales
- Alamo
- Travis
- Zavala
- Pease
- Noel
- **Crockett**
- **Bowie**

<p>Week #13 (11/1-11/5)</p>	<p>Unit: Variables - Lesson 10: Changing Variables with Artist (~40 minutes)</p>	<p>Unit 3: Investigating Forces (7 Days) (5 x a week @ 45 minutes) <i>STEMscopes scope: 5.6D</i></p>	<p>Speed: Investigate what factors can make a car go faster to help predict future motion (~120 minutes)</p>	<p><u>385 minutes</u> of the 2100 allotted minutes for this week</p>
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District Computer Science and Robotics Highlights



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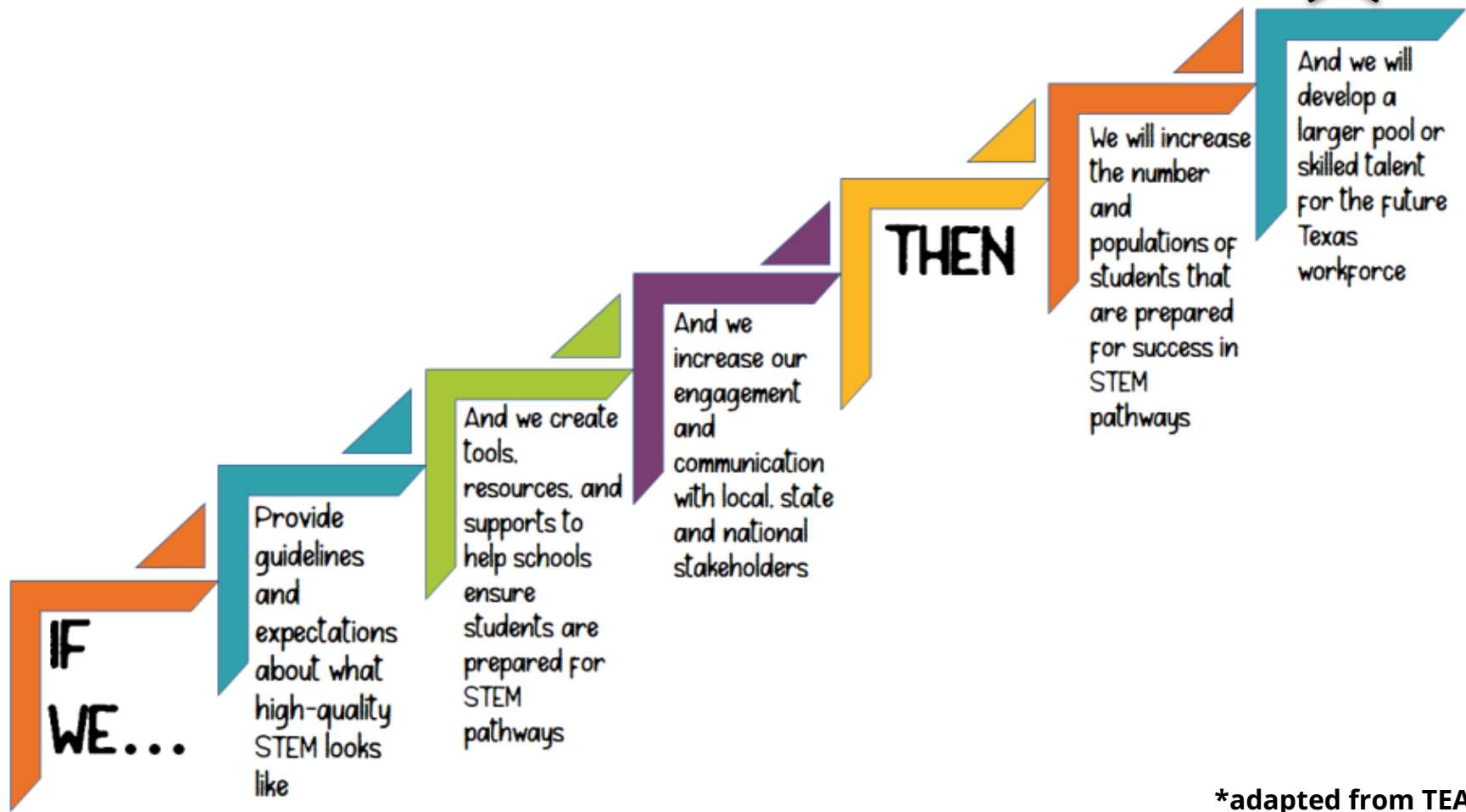
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Toujours commencer par réinitialiser le Beebot

OK

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ECISD's STEM Action Plan



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