Region 10

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District Science Leadership CoP Meeting Agenda

[All Sciences ~ All Students]

A STEM Initiative of Region 10

September 20, 2023

WiFi Portal: none

Advancing Equity and Access in Science Education: Leveraging our Community of Practice to Support NGSS Implementation strategies for all students via pre-determined Key Behaviors.

Facilitators: Yamileth Shimojyo (RCOE), Mariano Aranda (SBCSS)

Region 10 Science Leadership : Better Together!

Facilitators/Support Staff

Kelley Ambriz
Administrator's Secretary
RCOE

Mariano Aranda
Science Consultant
SBCSS

Michelle Sanchez
Administrator's Secretary
RCOE

Yamileth Shimojyo
STEM Administrator
RCOE

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DSL Community of Practice Goals 23-24

- **Goal 1** - Implementation of high quality science instructional strategies in Region 10
- **Goal 2** - Building leadership capacity of our network members
- **Goal 3** - Regional advocacy efforts toward the inclusion of science instruction, K-12
- **Goal 4** - Connect with various STEM partners in our region to gain knowledge about industries, colleges and education partners that provide services to students

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DSL Community of Practice Meeting Locations/Dates, 23-24

Dates	Sponsor Partner Locations	Registration Links
September 20, 2023	Flabob Airport	https://events.rcoe.us/DSL2023-24-FLABOB
November 16, 2023	Esri	Science (k12oms.org)
February 7, 2024	UCR MESA	https://events.rcoe.us/DSL2023-24-UCRMESA
April 24, 2024	La Brea Tar Pits	https://sbcss.k12oms.org/31-241231

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Engage : Opening Address by our Host

9:30- 11:30

Opening Address:

Nina Brentham,
Chief Financial Officer & Director of Youth Programs

Engage/Explore:

- Background on the Tom Wathen Center @ Flabob Airport
- Two Rotations: Tour & Hands-On Session

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Lunch! @ the Flabob Cafe

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Explain: Statewide Update

- CISC Science Subcommittee UPDATE
  - Mathematics, Science and CS Professional Learning Grant
  - CAST Interim Assessments
    - Available for Preview now!

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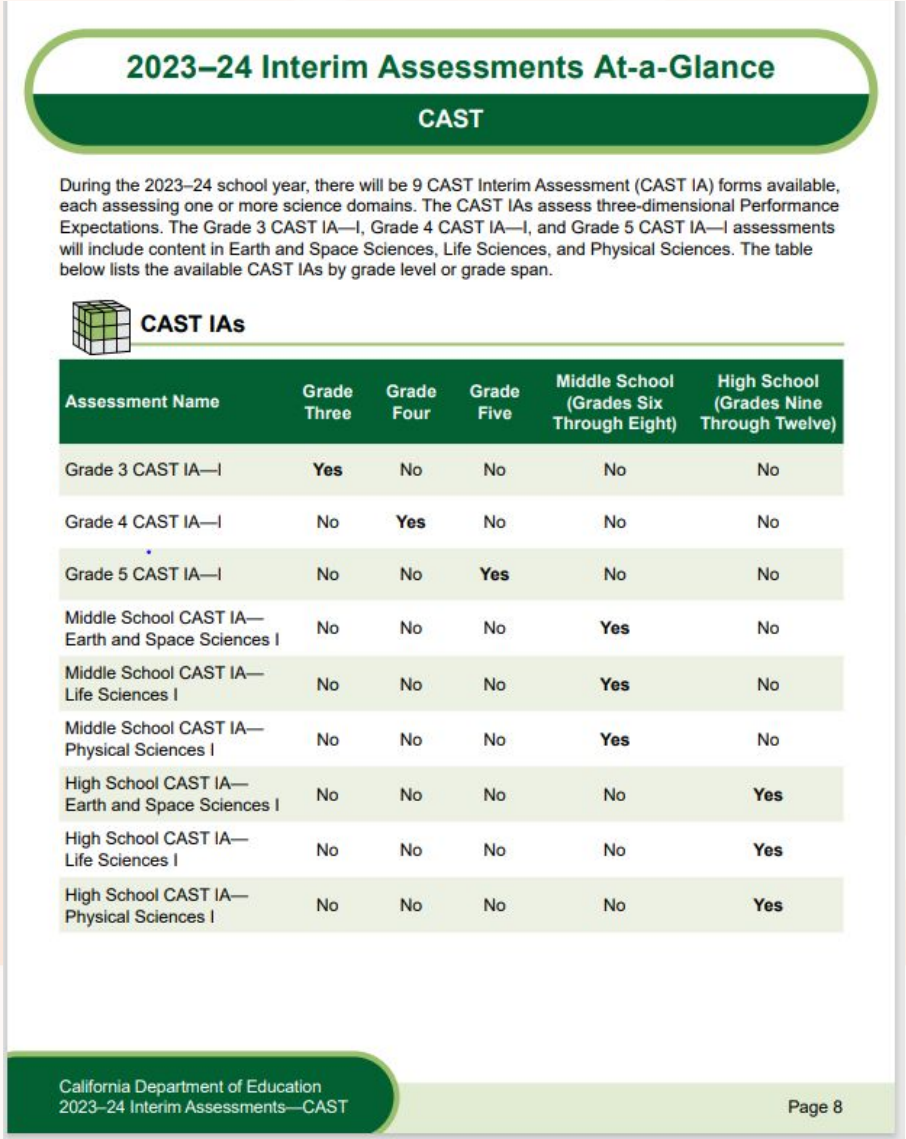
2023–24 Interim Assessments - At-a-Glance

- Smarter Balanced ELA
- Smarter Balanced mathematics
- CAST, p. 8
- ELPAC



2023–24 Interim Assessments At-a-Glance

CAST

During the 2023–24 school year, there will be 9 CAST Interim Assessment (CAST IA) forms available, each assessing one or more science domains. The CAST IAs assess three-dimensional Performance Expectations. The Grade 3 CAST IA—I, Grade 4 CAST IA—I, and Grade 5 CAST IA—I assessments will include content in Earth and Space Sciences, Life Sciences, and Physical Sciences. The table below lists the available CAST IAs by grade level or grade span.

CAST IAs

Assessment Name	Grade Three	Grade Four	Grade Five	Middle School (Grades Six Through Eight)	High School (Grades Nine Through Twelve)
Grade 3 CAST IA—I	**Yes**	No	No	No	No
Grade 4 CAST IA—I	No	**Yes**	No	No	No
Grade 5 CAST IA—I	No	No	**Yes**	No	No
Middle School CAST IA—Earth and Space Sciences I	No	No	No	**Yes**	No
Middle School CAST IA—Life Sciences I	No	No	No	**Yes**	No
Middle School CAST IA—Physical Sciences I	No	No	No	**Yes**	No
High School CAST IA—Earth and Space Sciences I	No	No	No	No	**Yes**
High School CAST IA—Life Sciences I	No	No	No	No	**Yes**
High School CAST IA—Physical Sciences I	No	No	No	No	**Yes**

California Department of Education
2023–24 Interim Assessments—CAST
Page 8

2023–24 Interim Assessments At-a-Glance (PDF) (July 2023)

This document lists, by grade level or grade span, all available CAASPP and ELPAC Interim Assessments.

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CAST Interim Assessment Resources

Note: the CAST Interim Assessments are now available for preview in the Interim Assessment Viewing System. Training guides, exemplars, and answer keys are also available now in TOMS. The CAST Interim Assessments will be fully available to administer and generate results in late October, 2023.

- The CAST Interim Assessments in grades three, four, and five will each assess all three science domains.
- Middle school and high school will each have three interim assessments that assess a single science domain.
- Each CAST interim assessment will consist of two segments: one discrete segment and one performance task (PT) segment.
- The PT consists of four to six items, including one constructed response item worth 2 points that must be hand-scored.

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Interim Assessment Viewing System

The Interim Assessment Viewing System contains all of the Smarter Balanced Interim Assessments. It is designed to allow teachers to see the interim assessments and understand the types of questions on the IABs, Focused IABs, and the ICAs and the scope of the content on an interim assessment. It allows teachers to better gauge when to administer a specific interim assessment.

CAASPP Interim Assessment Administration Resources

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Lets Dig into the Resources!

What is it?	What is its Implementation Potential?

Blueprints

- CAST Interim Assessment Blueprint (PDF) (January 2023)

Item Specifications

Item specifications describe how items for the CAST are developed to assess the California Next Generation Science Standards (CA NGSS).

CAST Item Specifications web page

CAST Constructed Response Annotated Examples

These annotated examples were created for selected constructed response items on the CAST practice tests. Practice test scoring guides and more can be found on the Online Practice Test Scoring Guides, PFAs, and DFAs web page.

- *CAST: Practice Test Constructed Response Annotated Examples–Grade Five* (PDF)
- *CAST: Practice Test Constructed Response Annotated Examples–Grade Eight* (PDF)
- *CAST: Practice Test Constructed Response Annotated Examples–High School* (PDF)

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CA Assessment Accessibility Resource Matrix

The California Assessment Accessibility Resources Matrix(DOCX) displays the embedded and non-embedded universal tools, designated supports, and accommodations (UDAs) allowed as part of the California Assessment of Student Performance and Progress (CAASPP) and English Language Proficiency Assessments for California (ELPAC) for 2022–23. **(The 2023–24 matrix will be available soon).**

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Our Regional Work

Networked Improvement Community (NIC)

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Region 10 STEM

Regional Improvement Plan
Aim Statement

February 1, 2019
Revised April 25, 2019

Links for network meetings:

- District Science Leadership Community of Practice (DSLCoP): tinyrul.com/DSLCoP
- District Science Teachers Community of Practice (DSTCoP): tinyrul.com/DSTCoP

Region 10 STEM Vision = All Science, All Students*SOS

Aim Statement

By 2022, **funding** will increase to support high quality science instruction in the 64 school districts in Region 10.

*money=accountability

Primary Drivers

Site SPSAs

District LCAP

Secondary Drivers

Students must have resources for high quality instruction

Teachers must have time and support (PD, resources, network, appropriate working space) to (ie., plan, apply, practice and reflect) self identify as a science and environmental literacy teacher.

Equitable access to all **students** including those with disabilities (SWD) and ELLs.

Parents and Community need opportunity to build awareness and have voice.

Administrators must have defined science vision and goals for each year

CAST and other statewide measures

Teachers must develop skills to provide equitable support

Schools must develop equitable opportunities

Evidence of **teacher** implementation and reflections around student work samples

College, career, and civic life readiness for ALL **students**

Change Ideas

NGSS Instructional Rounds (Site/District Administration)

District Science Leaders COP (TOSAS, Coaches & Administrators)

District Science Teacher COP (HS/MS/ES Teachers)

STEP Educator and Student Conferences (Community)

Region 10 COP (COE, Administrators, Teacher Leaders)

Inyo/Mono: support of all programs and systems

Region 10 August, 2019, v.21

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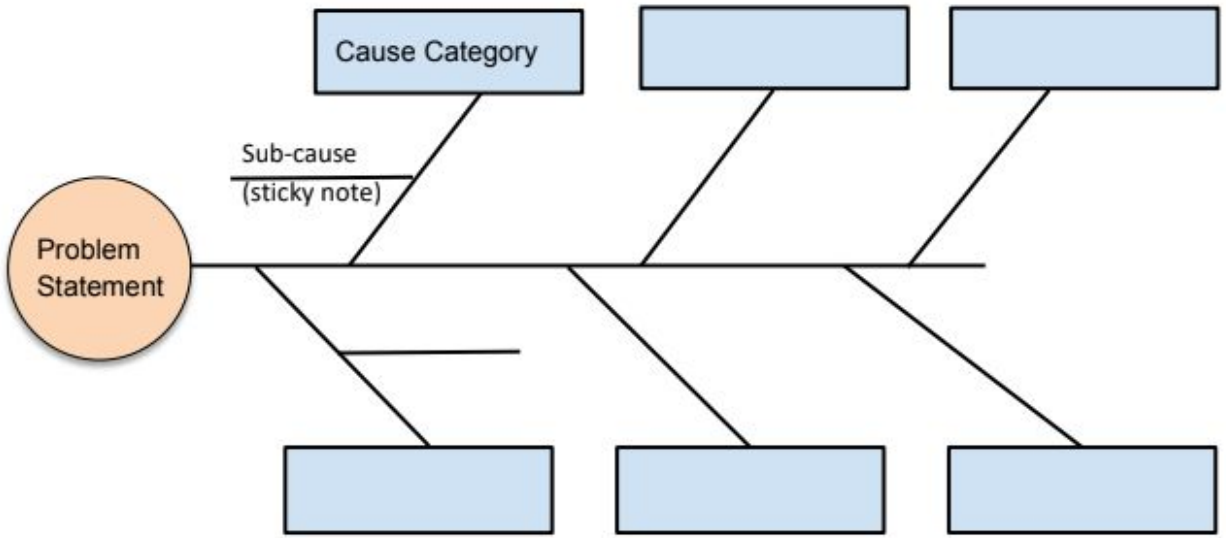
Carnegie Foundation
for the Advancement of Teaching

Fishbone Diagrams

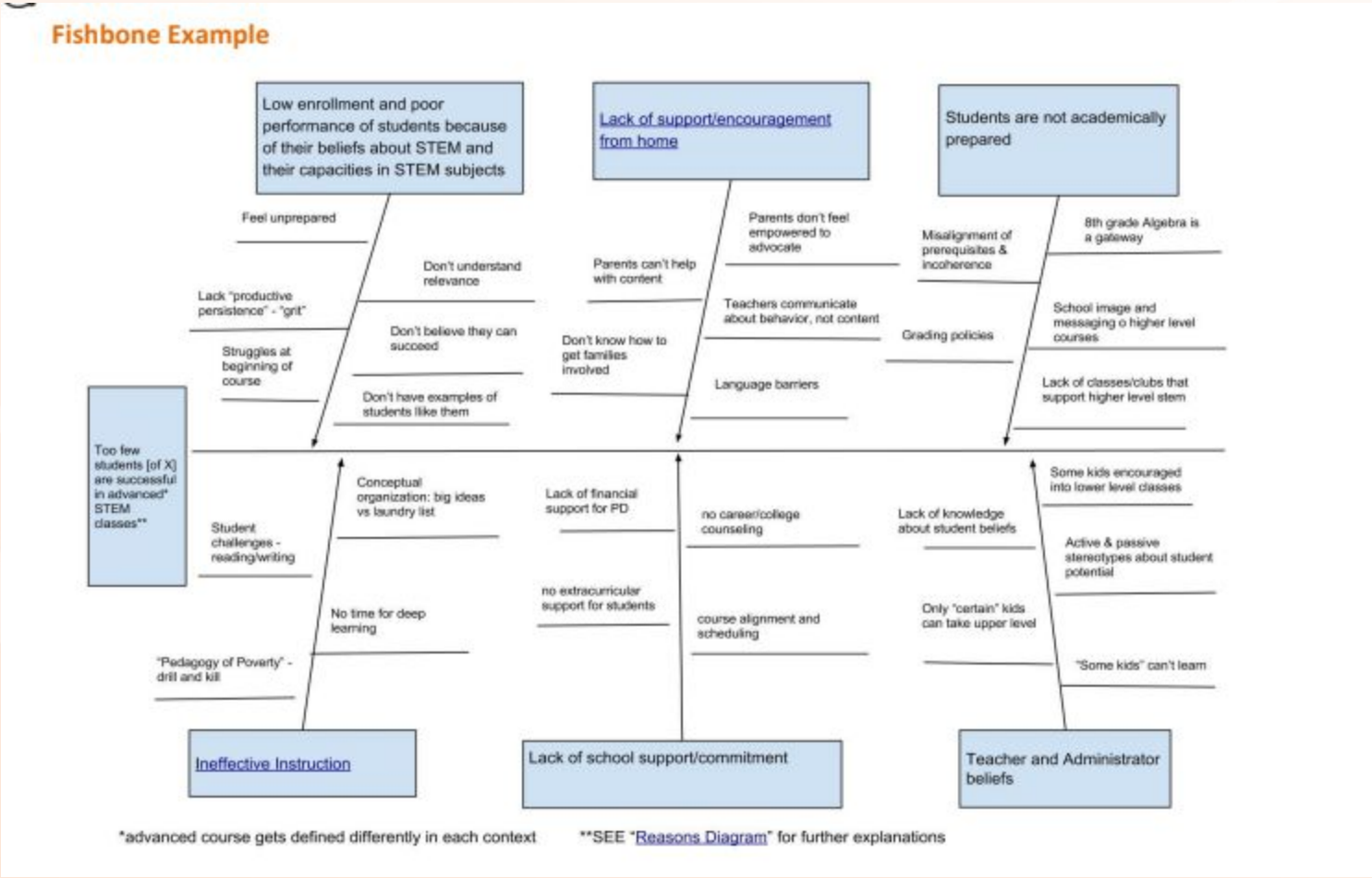
Causal system analysis is a process that results in identifying the potential root causes of problematic outcomes. A **fishbone diagram** is one tool used to collect, organize, and summarize the group's current knowledge about potential causes of problematic outcomes or variation in outcomes. It often utilizes an affinity protocol to access the group's non-judgmental ideas and helps teams focus on the important underlying causes instead of jumping to solutions.

Components of Fishbone Diagrams

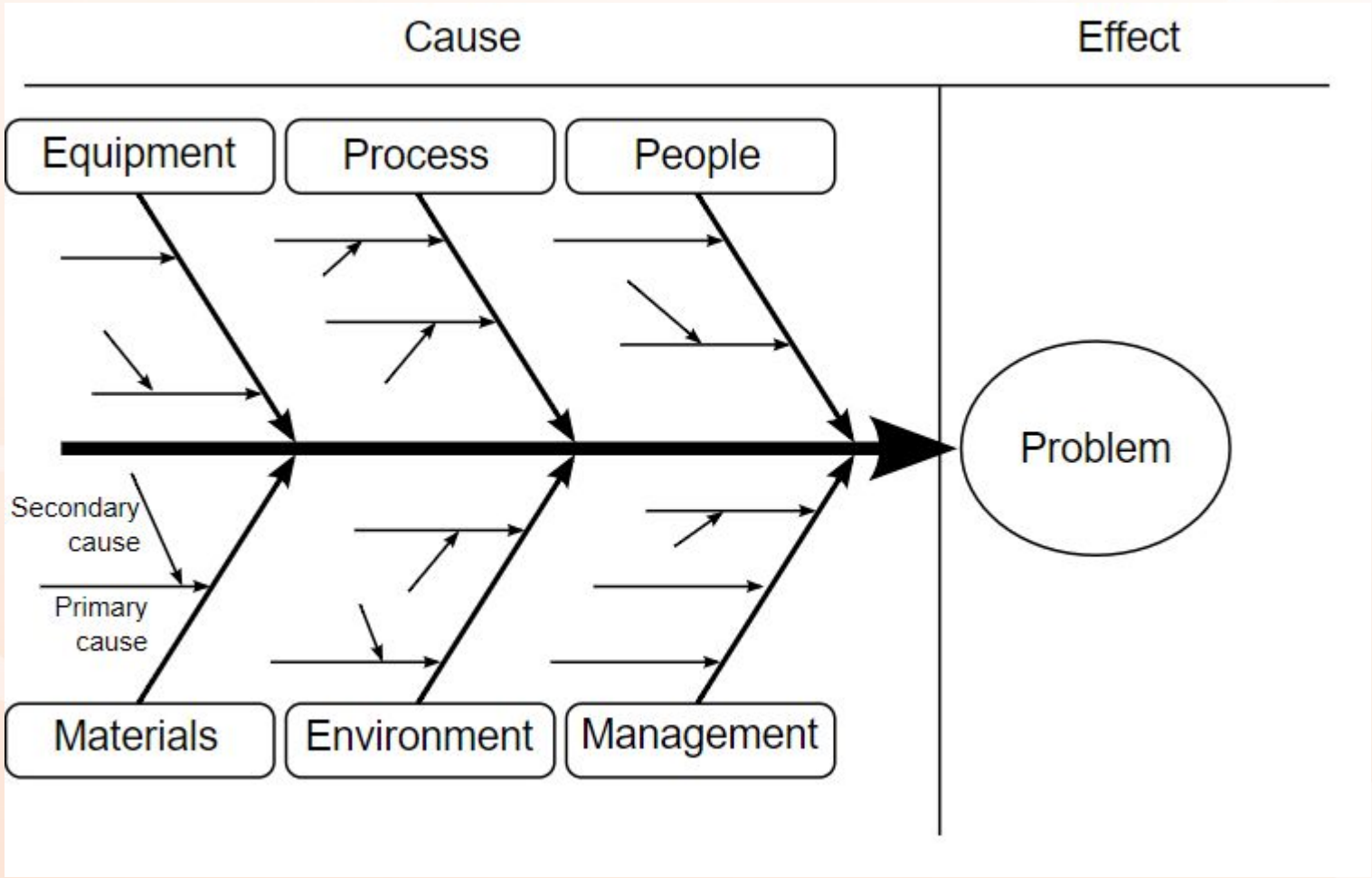
- The **problem statement** is recorded in the "head" of the fishbone diagram. The problem statement focuses on a concrete problem; either a gap in performance or unwanted variation in a system or process.
- The **causes** of the problem are located on the "bones" of the fishbone diagram. Each bone is labeled with a **cause category**, and related **sub-causes** are located underneath.



Fishbone Example



*advanced course gets defined differently in each context **SEE "Reasons Diagram" for further explanations


Cause
Effect
Equipment
Process
People
Problem
Secondary cause
Primary cause
Materials
Environment
Management

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Elaborate: NGSS Implementation

We Advocate

We analyze systems Root/Cause Analysis

We Identify Vital Behaviors

We are Influencers

Region 10 NIC Members/Leadership

Defining Vital Behaviors for Region 10 Simple, Visible Classroom Vital Behaviors Implementation Data / CAST

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Elaborate: STEM Ecosystem

Initiatives in Support of High Quality Science Instruction

District Science Leadership Community of Practice 23-24

- 9/20/2023 11/16/2023
- 2/7/2024 4/24/2024

STEM Summer Learning Labs

- STEM PULL (Public Utilities)
- STEM LEAPS (Law Enforcement and Public Safety)
- STEM ID (In Defense)
- STEM Solutions
- STEM I AM (in Advanced Manufacturing)

STEM Academies

STEM P^3
STEM FUNdamental

Advancing Student Research Teaching Academy:

Empowering HS teachers to support Student Research

STEMaPalooza: 2/1 - 2/29 2024

Educator STEPCon23: 10/10/23

- Bourns Technology Center, Riverside

Student STEPCon23: 10/5/23

- Virtual Platform: Science Show, Exhibits, Student Research, Leaderboard

Counselor STEPCon23: 11/8/23

- Bourns Technology Center, Riverside

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Back in Palm Springs!

- CASE Conference 2023
  - Palm Springs October 20-22
    - Will include a Pre-conference Day for Science Leaders on Thursday
- CASE Membership is Now $30!

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Evaluate:

Measurement of our Region 10 NGSS Vital Behaviors

REGION 10 District Science Leaders

Region 10 Aim Statement: Each participating LEA/School in Region 10 will establish an implementation goal of NGSS Vital Behaviors for the 2021 - 2022 academic school year.
Elementary Site/District SAMPLE: xx% of teachers in NAME OF SCHOOL SITE will implement observable Vital NGSS classroom behaviors by the end of the school year.
Secondary Site/District SAMPLE: xx% of teachers in NAME OF SCHOOL SITE will implement observable Vital NGSS classroom behaviors by the end of the school year.

	Implementation of NGSS Key Behaviors, TK-12										
					Elementary	*Secondary*	NGSS Vital Behavior Data Metrics				
	Name	Role/Title	Email	School OR	% Goal	% Goal	BENCHMARK /	November	Februray	April	Additional Notes
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Measurement of Local NGSS Vital Behaviors

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Name of School Site - Name of District -

NGSS Implementation Vital Behaviors Local Data 2021-2022		
Number of Classrooms	**Vital Behavior**	**Implementation Percentage**
	Vital Behavior #1	
	Vital Behavior #2	
	Vital Behavior #3	
	Vital Behavior #4	
	Vital Behavior #5	
Total of Classrooms Visited:		Average:

**A Region 10 NGSS/STEM Initiative to support inclusive, high quality science instruction for ALL*

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How can County Office Leadership assist your efforts on high quality science instruction for ALL?

we are listening….

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2023 SRC Virtual Office Hours

2023 SRC Virtual Office Hours

2023 Virtual SRC Office Hours

In support of the Riverside County Science and Engineering Fair
Zoom Meeting Link: https://rcoe.zoom.us/j/94341218354

Announcing *the 2023 Virtual SRC Office Hours!* Coming this fall, Nick Perez will host virtual SRC office hours in order to provide technical support around the Rules and Regulations for the RCSEF.

Fall office hours begin Monday, September 11th and will occur every Monday until December 18,2023. The times for the virtual office hours are from 3:00 pm to 5:00 pm via zoom.

Nick Perez, Technical Consultant
Nick Perez is currently a 4th year microbiology student at the University of California, Riverside. He plans on pursuing a career in medicine, specifically orthopedic surgery. He has been a science fair competitor since the 4th grade; and has competed at levels ranging from school, district, county, state, national and international levels.

SRC Forms	
Form 1, Checklist for Adult Sponsor	Form 4, Human Participants
Form 1A, Student Checklist	Sample Informed Consent Form
Research Plan/Project Summary	Form 5A, Vertebrate Animals Form
Form 1B, Approval Form	Form 5B, Vertebrate Animals Form
Form 1C, Regulated Research Institutional/Industrial Setting Form	Form 6A, Potentially Hazardous Biological Agents Risk Assessment Form
Form 2, Qualified Scientist	Form 6B, Human and Vertebrate Animal Tissue Form
Form 3, Risk Assessment	Form 7, Continuation/Research Progression Project Form

Virtual Office Hours Zoom Link: https://rcoe.zoom.us/j/94341218354

Riverside County Office of Education supports rigorous student research via the Riverside County Science and Engineering Fair. Science and Engineering Fair | Riverside County Office of Education. 2023 - 2024.

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Thank you to Flabob!