

Board Office Use: Legislative File Info.	
File ID Number	18-2409
Introduction Date	06/26/19
Enactment Number	19-1050
Enactment Date	06/26/19 er



Memo

To Board of Education

From Kyla Johnson-Trammell, Superintendent
Wesley Jacques, Executive Director, Academics and Instructional Innovation Dept.
Brenda Tuohy, Director, Science, Technology, Engineering, Mathematics (STEM)

Board Meeting Date June 26, 2019

Subject Memorandum of Understanding - WestEd (contractor) - Science Department - 909/Academics and Instructional Innovation Department (site/department)

Action Requested and Recommendation Approval by the Board of Education of a Memorandum of Understanding between District and WestEd, San Francisco, CA, for the latter to provide WestEd researchers the opportunity to gather data for the middle grades science teacher study entitled: *Understanding Teacher Enactment of New Science Standards and Needs for Implementation Support* project (ECR NGSS Study), in partnership with the OUSD Science Department; participating teachers will complete 3 online surveys, 5 classroom observations, 2 learning logs, 2 phone interviews, and administer a student survey; all information and data collected in the study is confidential, each participating teacher will receive a stipend of \$800.00, funded through a National Science Foundation grant, for the Academics and Instruction Innovation Department, for the period of July 1, 2018 through June 30, 2019.

Background WestEd works to improve the health and well-being of children by increasing opportunities for physical activity and safe, meaningful play. This study seeks to understand teachers' views and experience with the new expectations in science instruction with the Next Generation Science Standards (NGSS). Researchers will gather data around "3D" teaching, phenomena-based instruction, the California integrated science model, and the incorporation of engineering design in science courses. In addition, researchers will also work with teachers to obtain insights into general teacher practices including lesson planning, instructional strategies for engaging students, and equity.

Competitively Bid Was this contact competitively bid? No.
If no, exception: Services provided at no cost to the District.

Fiscal Impact Funding resource: Teacher stipends are administered through WestEd via a grant funded by the National Science Foundation.

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**OAKLAND UNIFIED
SCHOOL DISTRICT**
Community Schools, Thriving Students

Attachments

- Memorandum of Understanding
- Exhibit I - Data Sharing Agreement
- Teacher Study: Understanding Teacher Enactment of New Science Standards and Needs for Implementation Support Project

Memorandum of Understanding

between

The Oakland Unified School District and WestEd

Understanding Teacher Enactment of New Science Standards and Needs for Implementation Support

This Memorandum of Understanding (“MOU”) is made as of April 19, 2019 between Oakland Unified School District, located in Oakland, California, (“the District”) and WestEd regarding the middle grades science teacher study entitled *Understanding Teacher Enactment of New Science Standards and Needs for Implementation Support* project (the “ECR NGSS Study” or the “Study”). This MOU sets forth the parameters for WestEd’s conduct of the Study and the collection of education record data in the District.

At times herein, WestEd and District are each referred to as a “Party” and collectively referred to as the “Parties.” This MOU is a non-financial agreement.

1. Purpose

Funded by a grant from the National Science Foundation (NSF), and led by WestEd, headquartered in San Francisco, CA, the project investigates the nature of middle grades teachers’ implementation of the Next Generation Science Standards (NGSS). The study is a companion to the NGSS Early Implementation Initiative (EII) in progress in 10 California districts. The study complements the EII evaluation that is probing implementation barriers and opportunities. Researchers will ask: How do prior science teaching experiences, science backgrounds, current beliefs about science teaching and learning, efficacy for science teaching, science curricula and assessments, and the science teaching context influence teachers’ enactment of NGSS? How do different amounts of implementation support influence teachers’ capabilities and disposition to enact the NGSS?

The District’s participation is dependent upon its willingness to permit the Study activities specified below. WestEd anticipates that the District’s direct costs will be minimal.

2. Timeline

The Study will be conducted in the 2018-2019, and 2019-2020 school years. Volunteer teachers will be recruited for the study beginning Spring 2019 through Fall 2019. Teachers will participate in online surveys, teacher logs, and phone interviews over the course of the study. Participating teachers will receive a stipend and can discontinue at any time. Researchers will visit Study classrooms to observe science lessons about twice yearly. Students of the Study teachers will be asked to take up to two short surveys per year; parents will be provided with Study information and an opt-in form for their student. Administrators and other district staff will not be asked for any formal interviews or surveys.

3. Term and Termination

- A. This MOU is effective as of the date first written above and expires on September 30, 2020.
- B. Either Party may terminate this MOU without cause upon 30 days' written notice of intent to terminate to the other Party.
- C. The termination or expiration of this MOU shall not affect the rights or obligations regarding confidentiality or the retention, storage, or destruction of Data, as set forth in Sections 5 and 9.D herein. Such rights and obligations shall survive the term of this MOU.

4. Definitions

- A. "Data," as used in this MOU, shall mean information collected through teacher surveys, teacher instructional logs, teacher interviews, classroom observation materials, and student surveys, and 6th, 7th, and 8th grade state math test scores and demographic information of participating students to be provided by the District. The requested demographic variables are: gender, ethnicity, language status, and special education status.
- B. "Personally Identifiable Information" or "PII," as used in this MOU, shall mean any information or Data that, alone or in combination, is linked or linkable to a specific teacher or student and that would allow a reasonable person in the school community, who does not have personal knowledge of the relevant circumstances, to identify the teacher or student with reasonable certainty.
- C. "De-identified Data," as used in this MOU, shall mean Data from which all Personally Identifiable Information has been removed or obscured so that a reasonable person in the school community, who does not have personal knowledge of the relevant circumstances, would not be able to identify any individual teacher, student or parent with reasonable certainty.

5. Confidentiality

- A. The District is authorized to release the Data without written parental consent under Section 99.30(a)(6) of Title 34 of the Code of Federal Regulations, adopted pursuant to the Family Educational Rights and Privacy Act ("FERPA"). All PII shared by District is and shall continue to be District's property.
- B. WestEd and its contractors agree to take all necessary precautions to safeguard the Data and comply with all applicable Federal, State, or local laws, ordinances, regulations, and directives relating to confidentiality. These include, but are not limited to, the FERPA, the California Information Practices Act (California Civil Code § 1798 et. seq.), and the Privacy Act of 1974, as amended, (5 U.S.C. § 552).
- C. PII will only be used for purposes of the Study identified in this MOU. WestEd will limit internal access to PII to individuals working on the Study with legitimate interests in the PII and on a need to know basis.

- D. WestEd will take steps to maintain the confidentiality of all PII at all times.
- E. No individual shall be identifiable in any reports, publications, or other documents created by WestEd or its contractors with the use of Data.
- F. WestEd will destroy all PII when it is no longer needed for the Study and no later than 60 days after the expiration of this MOU. The Parties may amend the MOU to extend the time period if needed, however such amendment must be in accordance with Section 8.A of this MOU.
- G. In accordance WestEd's prime award from NSF, De-identified Data will be retained by WestEd after completion of the Study and the term of this MOU. De-identified Data may be shared with researchers outside the institute for secondary analyses, as permitted by FERPA.
- H. In any published reports or other publications created by WestEd with the use of Data, WestEd will not include information that could lead to the identification of an individual whose information is included in the Data.
- I. The Data Sharing Agreement attached in Exhibit I shall herein be incorporated to this MOU.

6. WestEd Responsibilities

WestEd shall:

- A. Provide dedicated contact person for the Study. WestEd's contact person for purposes of the Study is:
 - Ted Britton, Associate Director, STEM Program
 - WestEd
 - 400 Seaport Court, Suite 222
 - Redwood City, CA 94063
 - Phone: (650) 381-6416
 - Email: tbritto@wested.org
- B. Retain all Data that includes Personally Identifiable Information in a place physically secure from access by unauthorized persons. Any electronic device on which the Data with PII reside will be password protected at all times. Tangible copies of the Data with PII will be stored in locked file cabinets.
- C. Inform parents of students in participating classes that the ECR NGSS Study is taking place and give them an opportunity to opt out of Data collection.

[This section intentionally blank.]

7. District Responsibilities

The District shall:

- A. Designate a contact person to facilitate communications between the District and WestEd regarding the ECR NGSS Study. The District's contact person is:

Name: Brenda Tuohy
Title: Director, STEM
Telephone: 510-879-1129
Email: Brenda.Tuohy@ousd.org

- B. Allow teachers participating in the Study to complete surveys, instructional logs, and interviews as part of the work of the ECR NGSS Study.
- C. Allow participating teachers to administer Study surveys to their students and return the surveys to WestEd for analysis.
- D. Allow WestEd researchers to observe classrooms participating in the Study.
- E. Provide WestEd with 6th, 7th, and 8th grade state math test scores and demographic information of participating students. The requested demographic variables are: gender, ethnicity, language status, and special education status.

8. General Provisions

- A. Amendments. This MOU may be amended at any time by mutual agreement of the Parties without additional consideration, provided that before any amendment shall take effect, it shall be in writing and signed by both parties.
- B. Assignment. Neither Party shall voluntarily or by operation of law, assign or otherwise transfer its rights or obligations under this MOU without the other party's prior written consent. Any purported assignment in violation of this paragraph shall be void.
- C. Severability. The provisions of this MOU are severable and the unenforceability of any provision of this MOU shall not affect the enforceability of any other provisions hereof.
- D. Limitation of liability. Each Party shall bear all costs, risks, and liabilities incurred by it arising out of its obligations and efforts under this MOU. Neither Party shall have any right to any reimbursement, payment or compensation of any kind from the other Party, unless expressly set forth herein or agreed to in writing by both Parties.
- E. Relationship between the parties. Nothing in this MOU shall be construed to grant either Party the right to make commitments of any kind for or on behalf of the other Party, without the prior written consent of the other Party. Nothing in this MOU shall be deemed to constitute, create, give effect to, or otherwise recognize an employment

relationship between the parties or a joint venture, partnership, or formal entity of any kind.

- F. Execution. Each of the persons signing this MOU represents that he or she has the authority to sign on behalf of and bind their respective party.
- G. Entire agreement. This MOU is the entire agreement between the parties. No other agreements, oral or written, have been entered into with respect to the subject matter of this MOU.

IN WITNESS WHEREOF, the parties have, by their respective duly authorized representatives, executed this MOU as of the day and year first written above.

WestEd

By: Virgilio F. Tinio, Jr.
Virgilio F. Tinio, Jr. (May 14, 2019)

Name: Virgilio F. Tinio, Jr.

Title: Director of Grants & Contracts

Date: May 14, 2019

Oakland Unified School District

By: Aimee Eng
Aimee Eng, President, Board of Education

Name: 6/27/19

Title: Kyla Johnson Trammell
Kyla Johnson Trammell, Secretary, Board of Education

Date: 6/27/19

Please return this form via e-mail to jpowers@wested.org or fax to 510.302.4242.

OAKLAND UNIFIED SCHOOL DISTRICT
Office of the General Counsel
APPROVED FOR FORM & SUBSTANCE
By: Amy Brandt 5.31.19
Amy Brandt, Attorney at Law

EXHIBIT I
DATA SHARING AGREEMENT
BY AND BETWEEN WESTED AND OAKLAND UNIFIED SCHOOL
DISTRICT

I. PARTIES

This Data Sharing Agreement (“Agreement”) establishes the terms by which data will be shared between WestEd (“RECIPIENT”) and Oakland Unified School District (“OUSD” or “DISTRICT”) (collectively referred herein as “the Parties”).

This Agreement is further to the Memorandum of Understanding entered into by the Parties on April 19, 2019.

II. PURPOSE

Funded by a grant from the National Science Foundation (NSF), and led by WestEd, headquartered in San Francisco, CA, the project investigates the nature of middle grades teachers’ implementation of the Next Generation Science Standards (NGSS). The study is a companion to the NGSS Early Implementation Initiative (EII) in progress in 10 California districts. The study complements the EII evaluation that is probing implementation barriers and opportunities. Researchers will ask: How do prior science teaching experiences, science backgrounds, current beliefs about science teaching and learning, efficacy for science teaching, science curricula and assessments, and the science teaching context influence teachers’ enactment of NGSS? How do different amounts of implementation support influence teachers’ capabilities and disposition to enact the NGSS?

III. TERM

The term of this Agreement shall be from April 19, 2019 to September 30, 2020. The term may be extended with the written consent of both Parties.

IV. CONTENT/SCOPE OF SERVICE

Subject to the conditions stated herein, the Parties agree to share the following data:

Information collected through teacher surveys, teacher instructional logs, teacher interviews, classroom observation materials, and student surveys, and 6th, 7th, and 8th grade state math test scores and demographic information of participating students to be provided by the District. The requested demographic variables are: gender, ethnicity, language status, and special education status.

V. FERPA – PERSONALLY IDENTIFIABLE INFORMATION

- The data to be shared under this Agreement does **not** include personally identifiable information of students as defined under the Family Education Records Privacy Act of 1974 ("FERPA") (see 20 U.S.C. § 1232g).

X The data to be shared under this Agreement **does** include personally identifiable information of students as defined under the Family Education Records Privacy Act of 1974 ("FERPA") (see 20 U.S.C. § 1232g). Disclosure is permitted based on the following exemption (check all that apply):

- RECIPIENT is a contractor, consultant, volunteer, or other party to whom the DISTRICT has outsourced institutional services or functions and:
- (1) Performs an institutional service or function for which the DISTRICT would otherwise use employees;
 - (2) Is under the direct control of DISTRICT with respect to the use and maintenance of education records; and
 - (3) Is subject to the requirements of 34 C.F.R. § 99.33(a) governing the use and redisclosure of personally identifiable information from education records.
- RECIPIENT receives personally identifiable student information in connection with financial aid for which the student has applied or which the student has received, and the information is necessary for such purposes as to:
- (A) Determine eligibility for the aid;
 - (B) Determine the amount of the aid;
 - (C) Determine the conditions for the aid; or
 - (D) Enforce the terms and conditions of the aid.
- x RECIPIENT is an organization conducting studies for, or on behalf of the DISTRICT to:
- (A) Develop, validate, or administer predictive tests;
 - (B) Administer student aid programs; or
 - (C) Improve instruction.

AND

RECIPIENT further agrees:

- (A) The study shall be conducted in a manner that does not permit personal identification of parents and students by individuals other than representatives of the RECIPIENT who have legitimate interests in the information;

(B) The information shall be destroyed when no longer needed for the purposes for which the study was conducted; and

(C) The RECIPIENT shall use personally identifiable information from education records only to meet the purpose or purposes of the study as stated in this Agreement.

- RECIPIENT is, subject to the requirements of 34 C.F.R. § 99.34, to officials of another school, school system, or institution of postsecondary education where the student seeks or intends to enroll, or where the student is already enrolled and the disclosure is for purposes related to the student's enrollment or transfer.
- RECIPIENT is, subject to the requirements of 34 C.F.R. § 99.35, an authorized representatives of:
 - (i) The Comptroller General of the United States;
 - (ii) The Attorney General of the United States;
 - (iii) The Secretary; or
 - (iv) State and local educational authorities.
- RECIPIENT will first obtain written consent from the student's parent/legal guardian (or the student if s/he is no longer a minor) and provide copies to the DISTRICT. The consent form will identify with specificity the information to be disclosed.

VI. DIRECTORY INFORMATION

X The data to be shared under this Agreement includes identifiable "directory information" as defined under 20 U.S. Code § 1232g (a)(5). Such information may include the student's:

- name,
 - address,
 - telephone listing,
 - date and place of birth,
 - major field of study,
 - participation in officially recognized activities and sports,
 - weight and height of members of athletic teams,
 - dates of attendance,
 - degrees and awards received, and/or
 - the most recent previous educational agency or institution attended by the student.
- a. The Parties understand that the following information is not "directory information" and cannot be disclosed as identifiable information unless an exemption applies under Section IV above:
- ethnicity or race
 - gender

- nationality
 - social security number
 - religious affiliation
 - grades or grade point average (GPA)
- b. **Public Notice.** Prior to disclosure of directory information, the District shall give public notice on an annual basis which identifies the categories of such information and the RECIPIENT. Parents shall have a reasonable period of time after such notice has been given for to inform the DISTRICT that any or all of the information designated should not be released without the parent’s prior consent. (20 U.S. Code § 1232g (a)(5); see also California Education Code sections 49061, 49073.)
- c. **McKinney-Veto Homeless Assistance Act.** RECIPIENT shall not receive identifiable information (directory or otherwise) regarding students who are regarded as “homeless children and youths” under the McKinney-Veto Homeless Assistance Act (see 42 U.S. Code § 11434a) unless RECIPIENT obtains express written consent from the student’s parent/legal guardian (or the student if s/he is not a minor). Students covered under this requirement shall include:
- i. children and youths who are sharing the housing of other persons due to loss of housing, economic hardship, or a similar reason; are living in motels, hotels, trailer parks, or camping grounds due to the lack of alternative adequate accommodations; are living in emergency or transitional shelters; or are abandoned in hospitals;
 - ii. children and youths who have a primary nighttime residence that is a public or private place not designed for or ordinarily used as a regular sleeping accommodation for human beings (within the meaning of 42 U.S. Code § 11302(a)(2)(C));
 - iii. children and youths who are living in cars, parks, public spaces, abandoned buildings, substandard housing, bus or train stations, or similar settings; and
 - iv. migratory children (as such term is defined in 20 U.S. Code § 6399) who qualify as homeless for the purposes of this part because the children are living in circumstances described in clauses (i) through (iii) above.

VII. COPPA

- a. To the extent RECIPIENT shall be obtaining data directly from students, RECIPIENT agrees to comply with all obligations (if applicable) of the Children’s Online Privacy Protection Act (15 U.S.C. §§ 6501–6506).

VIII. RECIPIENT’S RESPONSIBILITIES

- a. **Scope of Access.** Recipient shall obtain access to only those education records in which they have legitimate educational interests.

- b. **Compliance.** All RECIPIENT employees, contractors and agents of any kind shall comply with all applicable provisions of this Agreement, FERPA and any other state or federal laws with respect to the data shared under this Agreement. RECIPIENT agrees to require and maintain an appropriate confidentiality agreement from each employee, contractor or agent with access to data pursuant to this Agreement. Nothing in this paragraph authorizes sharing data provided under this Agreement with any other entity for any purpose other than completing the RECIPIENT'S work under this Agreement.
- c. **Storage.** RECIPIENT shall maintain all data obtained pursuant to this Agreement in a secure computer environment and not copy, reproduce or transmit data obtained pursuant to this Agreement except as necessary to fulfill the purpose of the original request. All copies of data of any type, including any modifications or additions to data from any source that contains information regarding individual students, are subject to the provisions of this Agreement in the same manner as the original data. The ability to access or maintain data under this Agreement shall not under any circumstances transfer from the RECIPIENT to any other institution or entity or unauthorized individual or agent. Any cloud storage or processing will require the express written consent of DISTRICT. Data from DISTRICT shall not be taken outside the United States.
- d. **Publication.** RECIPIENT shall not to disclose any data obtained under this Agreement in a manner that could identify an individual student, except as authorized by FERPA, to any other entity. RECIPIENT may publish results of general information (e.g., scope of participation), but specifically agrees to delete any data items that include identifiable student information, and to require all employees, contractors and agents of any kind to also abide by this paragraph.
- e. **Data Transfer.** Data provided under this Agreement shall be transferred via a secure and private channel.
- f. **Prohibited Disclosure.** RECIPIENT shall not provide any data obtained under this Agreement to any party ineligible to receive data protected by FERPA or prohibited from receiving data from any entity by virtue of a finding under Sections 99.67(c), (d), or (e) of Title 34, Code of Federal Regulations.
- g. **Destruction of Data.** RECIPIENT shall destroy all data and provided verification in writing of the destruction of all copies of the data obtained under this Agreement to the DISTRICT within six (6) months if this Agreement is terminated for any reason. All data no longer needed shall be destroyed or returned to the DISTRICT in compliance with 34 CFR Section 99.35(b)(2). RECIPIENT agrees to require all employees, contractors, or agents of any kind to comply with this provision.

- h. **Data Requests.** The DISTRICT may decline to comply with a request if it determines that providing the data requested would not be in the best interest of the DISTRICT. All requests shall include a written statement of the purpose for which it is requested and an estimation of the time needed to complete the project for which the data is requested. Data requests may be submitted in writing by post, electronic mail or facsimile.
- i. **Assignment/Subcontractors.** RECIPIENT shall not assign or subcontract this Agreement to any other entity without the express written consent of the DISTRICT.
- j. **Authorized Representative.** The Parties shall designate in writing a single authorized representative from each organization who will be able to send and request data under this Agreement. The authorized representatives shall be responsible for transmitting all data requests and maintaining a log or other record of all data requested and received pursuant to this Agreement, including confirmation of the completion of any projects and the return or destruction data as required by this Agreement. The DISTRICT or its agents may upon request review the records required to be kept under this section.

DISTRICT REPRESENTATIVE
Name: Mike Smith
Title: Interim General Counsel

Address: 1000 Broadway Suite 680
Oakland, CA 94607
Email: mike.smith@ousd.org
Telephone: 510-879-8535

RECIPIENT REPRESENTATIVE
Name: Ted Britton
Title: Associate Director, STEM
Program WestEd
Address: 400 Seaport Court, Suite 222
Redwood City, CA 94063
Email: tbritto@wested.org
Telephone: (650) 381-6416

- k. **Termination.** This Agreement takes effect upon signature by the authorized representative of each party and will remain in effect until termination of this agreement (see Term above). The parties further understand that the DISTRICT may cancel this Agreement at any time, upon thirty (30) days' notice. The DISTRICT specifically reserves the right to cancel this Agreement should the DISTRICT, in its sole discretion, determine that student information has been released in a manner inconsistent with this Agreement, has not been maintained in a secure manner, or that substantially similar data access has become generally available through any other mechanism approved by the DISTRICT.
- l. **Ownership.** RECIPIENT understands that this Agreement does not convey ownership of data to the RECIPIENT. The DISTRICT shall remain owner of the data at all times.

- m. **Intellectual Property.** RECIPIENT shall not publish any work based on the data obtained through this Agreement without the prior written consent of the DISTRICT. In order to protect the confidentiality of previously identified directory information disclosed to the RECIPIENT, the authorized representatives agree to provide to the DISTRICT any proposed publications or presentations which are to make public any findings, data, or results based on the data obtained through this Agreement for the DISTRICT's review at least thirty (30) days prior to submission of said publication or the date of the presentation. The DISTRICT reserves the right to withdraw consent at any time.
- n. **Distribution.** RECIPIENT will provide the DISTRICT with an electronic copy of the final versions of any and all reports or other documents based on the data obtained through this Agreement (if applicable). The DISTRICT, as the owner of the data, reserves the right to distribute and otherwise use the final report and associated documents in its discretion, in sum or in part. The RECIPIENT or its agents retain the right to publish findings in other publications, provided that prior notice of report is first shared with the DISTRICT and the DISTRICT's approval is first obtained.
- o. **Entire Agreement.** This Agreement constitutes the entire agreement between the Parties with regards to data sharing and supersedes all prior discussions, negotiations, and agreements, whether oral or written. This Agreement may be amended or modified only by a written instrument executed by both Parties.
- p. **Signature Authority.** Each party has the full power and authority to enter into and perform this Agreement, and the person signing this Agreement on behalf of each Party has been given the proper authority and empowered to enter into this Agreement.
- q. **Applicable Law.** This Agreement shall be performed in Oakland, California and is governed by the laws of the State of California, but without resort to California's principles and laws regarding conflict of laws. The Alameda County Superior Court shall have jurisdiction over any litigation initiated to enforce or interpret this Agreement. Should any litigation be commenced between the parties hereto relating to the construction, effect, breach or enforcement of this Agreement, the prevailing party shall be entitled to reasonable attorney's fees and costs.

Entered into this _____ day of _____, 20__.

Accepted on behalf of the Oakland Unified School District

By: _____ Date: _____

Kyla Johnson-Trammell, Superintendent
Oakland Unified School District

Accepted on behalf of the RECIPIENT

By: _____ Date: _____

Print Name, Title

By: Virgilio F. Tinio, Jr. Date: May 14, 2019
Virgilio F. Tinio, Jr. (May 14, 2019)

Authorized Representative

Virgilio F. Tinio, Jr. Director of Grants & Contracts

Print Name, Title

OUSD or the District verifies that
the Contractor does not appear on
the Excluded Parties List at
<https://www.sam.gov/>

Understanding Teacher Enactment of New Science Standards and Needs for Implementation Support

Information for Teachers about the “NSF NGSS” Study

All middle grades science teachers are invited to participate in an NGSS study being funded by the National Science Foundation (the “NSF NGSS” Study). This study is encouraged by the K12 Alliance and the S.D. Bechtel Jr. Foundation, however participation is completely voluntary.

This study **needs teachers who are not Early Implementers as well as those who are in the Initiative**. This is a national study of **all** viewpoints of and any experience levels with NGSS science teaching and is not an evaluation of the Early Implementers Initiative.

Purpose: New expectations in NGSS suggest substantial changes in science instruction, and this study seeks to understand teachers views and experience with them.

Researchers are asking: 1) How is teacher enactment of NGSS influenced by teacher factors and their science teaching context?; and 2) How do different levels of implementation support influence teachers’ enactment of NGSS? Researchers also will look at student opportunities to learn that teachers develop to teach the new NGSS content.

Specifically, researchers will seek insight on topics specific to NGSS including:

- “3D” teaching – incorporating disciplinary content, science and engineering practices, and cross-cutting themes in instruction
- Phenomena-based teaching – using phenomena in designing and teaching science
- California’s middle school integrated science model
- Incorporating engineering design in science courses

In addition, researchers will also work with teachers to get insights into general teaching practices including lesson planning, instructional strategies for engaging students, and equity.

Participation Requirements: Researchers need the following help from teachers who agree to participate:

- Complete 3 online teacher surveys about science and science teaching
- Distribute informational letters to parents, and return any opt-out documentation
- Participate in up to a total of 5 classroom observations including a brief discussion about the lesson with researchers before and after
- Complete up to 2 alternative teacher logs to describe a “unit” of instruction
- Administer a 20-minute student survey no more than once each school year
- Participate in up to 2 phone interviews during each year of the study.

Researchers estimate that about **7-8 hours** of time will be required for each year of the study.

	Spring 2018	Fall 2018	Spring 2019	Fall 2019
Teacher Survey	X		X	X
Student Survey	X		X	X
Phone Interview	X	X	X	X
Classroom Observation	X	X	X	X
Alternative Log		X		X

Additional Information: All information and data collected in this study is confidential and will be anonymous. Researchers are not evaluating teacher or student performance. Teachers have the right to withdraw at any time and may do so without penalty (in which case the stipend will be pro-rated).

Compensation: Participating teachers will receive a stipend totaling \$800 for completing all project activities.

In addition, in reflecting upon science teaching and NGSS during study interviews, teachers may have an opportunity to learn more about these topics and gain ideas for future changes in their science teaching.

Contact Information: If you have questions about this study, you may contact Ashley Iveland, the project director, by phone at (805)729-3055 or via email at aivelan@wested.org.

To participate in the study, please complete the online consent form at the following link:

<https://www.surveymonkey.com/r/ECRNGSS>

