

Science and Technology Academy at Knights Landing (Sci-Tech) Annual Presentation



As part of our charter petition, Science and Technology Academy (Sci-Tech) provides an annual report to the Woodland Joint Unified School District (WJUSD) board of Trustees. Due to COVID, our last presentation took place in 2020 during our renewal. Included in this report is information regarding our Local Control and Accountability Plan (LCAP) goals, students we serve, assessments, curriculum, COVID recovery, and professional learning.

The mission of the Science and Technology Academy at Knights Landing (Sci-Tech) is to inspire learning, curiosity, and problem-solving with a focus on science and technology to produce students prepared to lead and contribute in the ever-changing 21st century world. Our motto: “Hands-on, Minds-on”.

Local Control and Accountability Plan (LCAP) Goals

SciTech Academy Local Control and Accountability Plan Goals



Goal 1: ALL students will demonstrate achievement through high quality instruction and learning opportunities.

Goal 2: Increase parent and family members’ attendance and participation as a means to support and improve student educational outcomes.



Goal 3: Improve and/or increase services to support the social, emotional, and physical well-being of students and their families.

Goal 4 - Accelerate the academic achievement and English proficiency of every English Learner (EL) through an asset-oriented approach and standards-based instruction.



Students Served

The Science and Technology Academy at Knights Landing (Sci-Tech) serves a diverse group of students coming from the Knights Landing community, Woodland, Robbins, Yolo, Davis, Sacramento, and other surrounding cities and towns.

Total Enrollment

Sub groups	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Not Hispanic	151	129	118	94	95	86
Hispanic	126	119	123	119	123	124
EL	34	33	28	28	22	27
RFEP	38	33	28	25	28	19
IFEP	2	2	6	9	9	8
EO	203	181	179	152	159	158
Socio-Economically Disadvantaged	27	134	112	106	130	111
Total	277	249	241	214	218	214

Knights Landing Residents attending Sci-Tech

Sub groups	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Not Hispanic	25	21	19	13	11	14
Hispanic	63	54	58	54	56	65
EL	25	21	16	14	13	18
RFEP	23	15	15	14	13	9
IFEP	0	0	4	5	5	4
EO	40	39	42	34	36	49
Socio-Economically Disadvantaged	73	63	56	51	56	52
Total	88	75	77	67	67	80

Outside District Enrollment

Sub Groups	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Not Hispanic	12	5	5	5	5	5
Hispanic	9	7	5	6	6	5
EL	1	0	0	2	2	1
RFEP	0	0	0	0	0	1
IFEP	1	1	1	0	0	0
EO	18	13	10	9	9	8
Socio-Economically Disadvantaged	5	4	3	8	7	4
Total	21	14	11	11	11	10

Academic Growth

2018-2019 and 2021-2022 California Assessment of Student Performance and Progress (CAASPP) Scores - At or Above Proficient

Subgroups	Language Arts (2018-19)	Language Arts (2021-22)	Math (2018-19)	Math (2021-22)
All Students	51%	46%	34%	38%
Socioeconomically Disadvantaged	26%	25%	16%	28%
English Learners	No data Fewer than 10	7%	No data Fewer than 10	7%
Special Education	17%	15%	10%	5%

As a charter school, we have our own internal Academic Growth Indicator to measure a student's academic growth. As a staff, we agreed upon using Standardized Testing and Reporting (STAR) for reading and math.

Spring 2021 and Spring 2022 STAR Reading and STAR Math Scores (Grades 3rd - 6th):
 (Number represents scores at or above typical growth the 35th current Student Growth Percentile (SGP))

Subgroups	Spring 2021 Reading	Spring 2022 Reading	Spring 2021 Math	Spring 2022 Math
All Students	64%	73%	59%	78%
Socioeconomically Disadvantaged	31%	Data not available	35%	Data not available
English Learners	14%	Data not available	14%	Data not available
Special Education	20%	Data not available	10%	How

Curriculum

With a focus on science and technology, teachers create their own curriculum through thematic units integrating social studies and the Next Generation Science Standards (NGSS) and rooted in the Language Art and English Language Development (ELD) common core standards. Students receive daily in-class technology instruction by a Tech Coordinator or classroom teacher. Students also participate in an annual Science Fair as well as an immersive science extravaganza known as “Big Science Friday”, the highlight of every month.

Math Expression is the only adopted curriculum, which serves as a springboard for math lessons. Most of our teachers have taken the Jo Boaler math course through Stanford University. After reflecting on our math California Assessment of Student Performance and Progress (CAASPP) scores several years ago, the staff agreed to make math a focus and created a common practice across grade levels. We agreed to implement and monitor three indicators of success: 1) Students participate in math talks. 2) When hearing a word problem read aloud, or when reading it independently, students are able to accurately explain the “story” of the problem. 3) Students are able to identify the reasonableness of an answer. Click here to access [Math Focus](#) matrix.

During last year’s LCAP input sessions, the staff evaluated the effects COVID had on our students’ literacy skills. Consequently, as a staff, we decided to adopt a *From Sounds to Spelling* phonics program for the primary grades (transitional kindergarten through grade 3). Agreements were made among the teachers to implement this new program with fidelity and to support each other with frequent check-ins and collaboration.

In the upper grades, novel studies are a big part of their curriculum. Each grade selects novels with diversity at its core and with themes that provoke rich discussions. Novels like: [Becoming Noemi Leon](#), [Petty Crimes](#), [Front Desk](#), [The One and Only Ivan](#), [Winter of Red Snow](#), [The Honest Truth](#), [Birchbark House](#), [Bud, Not Buddy](#), to mention just a few.

In addition, as a school we engage in the Global Read Program. The novels read during this event are read worldwide. This allows our students to connect via Skype with other students around the world. We also have our annual Robots Read event, which promotes literacy. As a school, a novel is selected to be read schoolwide. Fun activities are planned around this novel and daily raffles are done having students answer comprehension questions. A culminating activity is planned to celebrate the end of the novel. Each family is then given a copy of the book to continue building their family library. This year will be our 5th Robots Read event.

In keeping with our “Hands On, Minds On” philosophy, we have always considered field trips to be a big part of our curriculum. Both our LCAP and our Parent Teacher Organization (PTO) support these unique educational experiences for our students. Prior to the pandemic, in addition to individual

class field trips, Sci-Tech would kick off each school year with our annual All-School Field Trip. This event has always served as a team building experience for students, staff and families, at times taking up to 80 parent volunteers! We are proud to say that we are finally able to add this beloved annual event back onto our calendar this year!

COVID Recovery

We cannot deny that COVID affected our students both emotionally and academically. It also had an impact on our families, community and staff.

Therefore, the following has been put in place to begin to support our students:

- The continuing of our health tech support
- .5 Counselor
- Contract with Rural Innovations in Social Economics, Incorporated Inc. for additional counseling
- General Education Behaviorist
- Social Worker
- .5 CAFE Specialist
- Full-Time English Learner Specialist
- Reading Specialist
- Literacy Paraprofessional
- Contract with Littera Tutoring
- Expanded Learning Program
- Scheduled Family Events (Dia de los Muertos, Art Night, Pi Night, Kermes, Science Fair)
- Student Advisory Council

Professional Learning

Our Governance Committee is invested in providing time for our teachers, by providing three days during the summer to plan thematic units, backwards plan, and collaborate. In addition, our teachers also have participated in the 5 day district Professional Development. Looking at Goal 1 from our LCAP - *ALL students will demonstrate achievement through high quality instruction and learning opportunities* - and reflecting on our

academic growth we have formed a strong professional learning community and together we will utilize the following professional development opportunities to ensure high quality instruction for all of our students:

- Quality Teaching of English Learner (QTEL) Strategies
- English Learner Roadmap Implementation for Systemic Excellence (EL RISE)
- Social/Emotional Practices
- Restorative Practices
- Positive Behavioral Interventions and Supports (PBIS)
- Mindset Mathematics by Jo Boaler
- Science, Technology, Engineering, and Mathematics (STEM) Certification (School-wide STEM certification)

As a staff, we believe that high quality education is the key to making sure our students are prepared to lead and contribute in the ever-changing 21st century world. Each teacher and staff member brings forth tremendous expertise.