OpenSciEd®

Professional Learning Services

2024-2025

What We Offer

LAUNCH

Whether kicking off a pilot or district-wide adoption, OpenSciEd Launch events provide the foundation needed to get started.

DIVE DEEPER

One-time professional learning is not enough to support the shifts needed to support implementation of high-quality instructional materials. Give teachers the ongoing support they need and deserve after the Launch.

ONGOING VIRTUAL SUPPORT

Meet teachers where they're at! 90 minute virtual sessions provide checkin opportunities throughout the year to address the day-to-day needs and common challenges when implementing a new curriculum.

Request services

UPCOMING PUBLIC EVENTS

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openscied.org/professional-learning

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Launch

Curriculum Launch

4 days

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th) High School (Bio, Chem, Physics)	Teachers Coaches Administrators	Four 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level / content area, up to 30 ppl. per facilitator	$10,500 per grade level / content area

Participants will:

- Watch videos of students engaging with the OpenSciEd units
- Hear teachers reflect on shifting their instruction with support from the units
- Engage in the actual lessons of the unit as a student
- Deepen their understanding of three-dimensional instruction and assessment
- Focus on a different element of OpenSciEd's approach each day: Anchoring Phenomenon Routine, Storyline Instructional Model, Discussions, and Assessment

MS Focal Unit Options: *6.1 Light & Matter, 7.1 Chemical Reactions & Matter, 8.1 Contact Forces, 6.2 Thermal Energy, 7.3 Metabolic Reactions, 8.2 Sound Waves*
HS Focal Unit Options: *B.1 Ecosystem Interactions & Dynamics, C.1 Thermodynamics in Earth's Systems, P.1 Energy Flow from Earth's Systems*

Curriculum Launch *(abbreviated)*

3 days

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th) High School (Bio, Chem, Physics)	Teachers Coaches Administrators	Three 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level / content area, up to 30 ppl. per facilitator	$8,250 per grade level / content area

Participants will:

- Watch videos of students engaging with the OpenSciEd units
- Hear teachers reflect on shifting their instruction with support from the units
- Engage in the actual lessons of the unit as a student
- Deepen their understanding of three-dimensional instruction
- Focus on a different element of OpenSciEd's approach each day: Anchoring Phenomenon Routine, Storyline Instructional Model, and Discussions or Assessment

MS Focal Unit Options: *6.1 Light & Matter, 7.1 Chemical Reactions & Matter, 8.1 Contact Forces, 6.2 Thermal Energy, 7.3 Metabolic Reactions, 8.2 Sound Waves*
HS Focal Unit Options: *B.1 Ecosystem Interactions & Dynamics, C.1 Thermodynamics in Earth's Systems, P.1 Energy Flow from Earth's Systems*

Launch

Pilot Launch

1 day

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th) High School (Bio, Chem, Physics)	Teachers Coaches Administrators	One 6-hour days (plus lunch)	On site or virtual	1 facilitator for one session with all grade levels / content areas together, up to 30 ppl. (multiple grade level facilitators recommended)	$3,500 for 1 facilitator

Participants will:

- Engage in the actual lessons of a unit as a student
- Deepen their understanding of three-dimensional instruction
- Outline the instructional storyline for a unit
- Dig into a summative assessment for a unit

MS Focal Unit Options: *All units available*
HS Focal Unit Options: *B.1 Ecosystem Interactions & Dynamics, C.1 Thermodynamics in Earth's Systems, P.1 Energy Flow from Earth's Systems*

Dive Deeper

Student Sensemaking *(Launch follow-up)* — 2 days

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th)	Teachers Coaches Administrators	Two 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level, up to 30 ppl. per facilitator	$6,000 per grade level

Participants will:

- Reflect on successes and challenges of implementation of OpenSciEd units
- Identify OpenSciEd key instructional elements for teaching and learning
- Examine student video and artifacts from OpenSciEd units in relation to the key instructional elements
- Engage in the actual lessons of the unit as a student

Focal Unit Options: *6.2 Thermal Energy, 7.2 Chemical Reactions & Energy, 8.2 Sound Waves, 7.4 Matter Cycling & Photosynthesis, 8.3 Forces at a Distance*

Equitable Discussions — 2 days

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th)	Teachers Coaches Administrators	Two 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level, up to 30 ppl. per facilitator	$6,000 per grade level

Participants will:

- Reflect on successes and challenges around OpenSciEd implementation to support more equitable science classrooms
- Examine student video and learning scenarios to recognize the range of resources students use to make sense of science, consider the features of classroom culture, and identify strategies to support the three main discussion types used in OpenSciEd
- Identify pedagogical implications and strategies that can be used to support the development of classroom culture and leverage student resources
- Reflect on the key aspects of productive discussions and use a Discussion Planning Tool to plan for discussions that support idea development and student engagement
- Engage in the actual lessons of the unit as a student

Focal Unit Options: *6.3 Weather, Climate & Water Cycling, 7.3 Metabolic Reactions& Energy, 8.3 Forces at a Distance*

Dive Deeper

Universal Design for Learning

2 days

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th)	Teachers Coaches Administrators	Two 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level, up to 30 ppl. per facilitator	$6,000 per grade level

Participants will:

- Identify ways that OpenSciEd lessons are designed to address the principles of UDL
- Identify instructional strategies that align with the UDL Principles to support student learning
- Analyze lessons to identify goals, potential barriers, and ways to use the UDL Principles to remove barriers and create flexible paths to learning
- Identify strategies for Emergent Multilingual Learners (EML) that align with the UDL principles
- Engage in the actual lessons of the unit as a student

Focal Unit Options: *6.4 Plate Tectonics & Rock Cycling, 7.4 Matter Cycling & Photosynthesis, and 8.4 Earth in Space*

Innovative Assessments

2 days

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th)	Teachers Coaches Administrators	Two 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level, up to 30 ppl. per facilitator	$6,000 per grade level

Participants will:

- Analyze OpenSciEd Assessments using key criteria for 3D Assessments.
- Identify and analyze the different types of assessments in the OpenSciEd assessment system
- Examine student work to provide feedback and support students' 3D learning
- Use the assessment guidance to reflect on and prepare for lessons
- Engage in the actual lessons of the unit as a student

Focal Unit Options: *6.4 Plate Tectonics & Rock Cycling, 6.5 Natural Hazards, 7.5 Ecosystems Dynamics & Biodiversity, 8.5 Genetics*

Making Thinking Visible

2 days

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th)	Teachers Coaches Administrators	Two 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level, up to 30 ppl. per facilitator	$6,000 per grade level

Participants will:

- Reflect on their own students' writing/drawing and potential barriers
- Analyze lessons to understand the focus, role, and varied opportunities of writing and drawing for sensemaking in OpenSciEd
- Analyze examples from OpenSciEd lessons that show the student resources and progression of student ideas and practices over time as demonstrated through their writing and drawing
- Consider how to use instructional strategies to support students for writing and drawing for sensemaking
- Engage in the actual lessons of the unit as a student

Focal Unit Options: *6.6 Cells & Systems, 7.6 Earths Resources & Human Impact, 8.6 Natural Selection & Common Ancestry*

Equitable Culture for Sensemaking

2 days

Grade Band	Audience	Duration	Format	Logistics	Cost
High School (Bio, Chem, Physics)	Teachers Coaches Administrators	Two 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level, up to 30 ppl. per facilitator	$6,000 per content area

Participants will:

- Reflect on key instructional elements for teaching and learning embedded in OpenSciEd
- Discuss the purpose of assessment and what it means to shift to three-dimensional assessment
- Reflect on strategies and set goals to support equitable classroom culture and support community building
- Experience the anchoring phenomenon and other key lessons from your unit
- Co-construct the storyline for your unit

Focal Unit Options: *B.2 Ecosystems: Matter & Energy, C.2 Structure & Properties of Matter, P.2 Energy, Forces, & Earth's Crust*

Coherent 3D Assessments

2 days

Grade Band	Audience	Duration	Format	Logistics	Cost
High School (Bio, Chem, Physics)	Teachers Coaches Administrators	Two 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level, up to 30 ppl. per facilitator	$6,000 per content area

Participants will:

- Analyze the OpenSciEd Assessment System for your unit
- Reflect on the 3D elements in each assessment
- Analyze student work
- Experience the anchoring phenomenon and other key lessons from your unit
- Co-construct the storyline for your unit
- Discuss the relationship between assessment and grading and create a grading plan for your unit

Focal Unit Options: *B.4 Natural Selection & Evolution of Populations, C.4 Chemical Reactions in our World, P.5 Electromagnetic Radiation*

Universal Design for Learning

2 days

Grade Band	Audience	Duration	Format	Logistics	Cost
High School (Bio, Chem, Physics)	Teachers Coaches Administrators	Two 6-hour days (plus lunch)	On site or virtual	One facilitator needed per grade level, up to 30 ppl. per facilitator	$6,000 per content area

Participants will:

- Analyze OpenSciEd Lessons and assessment opportunities using Universal Design for Learning Principles
- Examine a new tool with ways to support and scaffold for different learners to remove barriers to the learning
- Reflect on the UDL principles embedded in key lessons and consider possible modifications using the Universal Design for Learning principles to remove barriers for your students
- Engage in the actual lessons of the unit as a student

Focal Unit Options: *B.3 Inheritance & Variation of Traits, C.3 Molecular Processes in Earth's Systems, P3 Collisions & Momentum*

Ongoing Virtual Support

Grades 6-12

Planning & Leading Discussions

3 sessions

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th) High School (Bio, Chem, Physics)	Teachers Coaches Administrators	1.5 hours per session	On site or virtual	Up to 30 ppl. per facilitator	$2,025 total*

Participants will:

- Reflect on successes and challenges of implementation of OpenSciEd units
- Find and apply resources embedded in the curricular materials to support classroom discussions
- Identify the three types of discussion in OpenSciEd and the purpose of each
- Plan for an upcoming discussion and reflect on previous discussions
- Observe and reflect on video of discussions from real OpenSciEd classrooms

*****_A fourth session that introduces teachers to their next unit, can be added on for an additional $675 per unit._

Assessment & Grading

3 sessions

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th) High School (Bio, Chem, Physics)	Teachers Coaches Administrators	1.5 hours per session	On site or virtual	Up to 30 ppl. per facilitator	$2,025 total*

Participants will:

- Reflect on successes and challenges of implementation of OpenSciEd units
- Find and apply resources embedded in the curricular materials to support assessment
- Work with colleagues to plan out what and how you will grade throughout the unit
- Work through an assessment from your unit in student hat
- Collaboratively evaluate student assessments with colleagues

*****_A fourth session that introduces teachers to their next unit, can be added on for an additional $675 per unit._

Ongoing Virtual Support

Grades 6-12

Supporting All Learners (UDL)

3 sessions

Grade Band	Audience	Duration	Format	Logistics	Cost
Middle School (6th, 7th, 8th) High School (Bio, Chem, Physics)	Teachers Coaches Administrators	1.5 hours per session	On site or virtual	Up to 30 ppl. per facilitator	$2,025 total*

Participants will:

- Reflect on successes and challenges of implementation of OpenSciEd units
- Find and apply resources embedded in the curricular materials to support the diverse needs of students
- Apply UDL principles to address the diverse needs of the students in teachers' specific contexts while planning for an upcoming lesson

***A fourth session that introduces teachers to their next unit, can be added on for an additional $675 per unit.*

Sessions by Unit

Focal Unit	Professional Learning Topic
6.1 Light & Matter	Curriculum Launch
6.2 Thermal Energy	Curriculum Launch, Student Sensemaking
6.3 Weather, Climate & Water Cycling	Equitable Discussions
6.4 Plate Tectonics & Rock Cycling	Universal Design for Learning, Innovative Assessments
6.5 Natural Hazards	Innovative Assessments
6.6 Cells & Systems	Making Thinking Visible
7.1 Chemical Reactions & Matter	Curriculum Launch
7.2 Chemical Reactions & Energy	Student Sensemaking
7.3 Metabolic Reactions	Curriculum Launch, Equitable Discussions
7.4 Matter Cycling & Photosynthesis	Student Sensemaking, Universal Design for Learning
7.5 Ecosystem Dynamics & Biodiversity	Innovative Assessments
7.6 Earth's Resources & Human Impact	Making Thinking Visible
8.1 Contact Forces	Curriculum Launch
8.2 Sound Waves	Curriculum Launch, Student Sensemaking
8.3 Forces at a Distance	Student Sensemaking, Equitable Discussions
8.4 Earth in Space	Universal Design for Learning
8.5 Genetics	Innovative Assessments
8.6 Natural Selection & Common Ancestry	Making Thinking Visible

Sessions by Unit

Focal Unit	Professional Learning Topic
B.1 Ecosystem Interactions & Dynamics	Curriculum Launch
B.2 Ecosystems: Matter & Energy,	Equitable Culture for Sensemaking
B.3 Inheritance & Variation of Traits	Universal Design for Learning
B.4 Natural Selection & Evolution of Populations	Coherent 3D Assessments
C.1 Thermodynamics in Earth's Systems	Curriculum Launch
C.2 Structure & Properties of Matter	Equitable Culture for Sensemaking
C.3 Molecular Processes in Earth's Systems	Universal Design for Learning
C.4 Chemical Reactions in our World	Coherent 3D Assessments
P.1 Energy Flow from Earth's Systems	Curriculum Launch
P.2 Energy, Forces, & Earth's Crust	Equitable Culture for Sensemaking
P.3 Collisions & Momentum	Universal Design for Learning
P.5 Electromagnetic Radiation	Coherent 3D Assessments

Sessions by Topic

Middle School

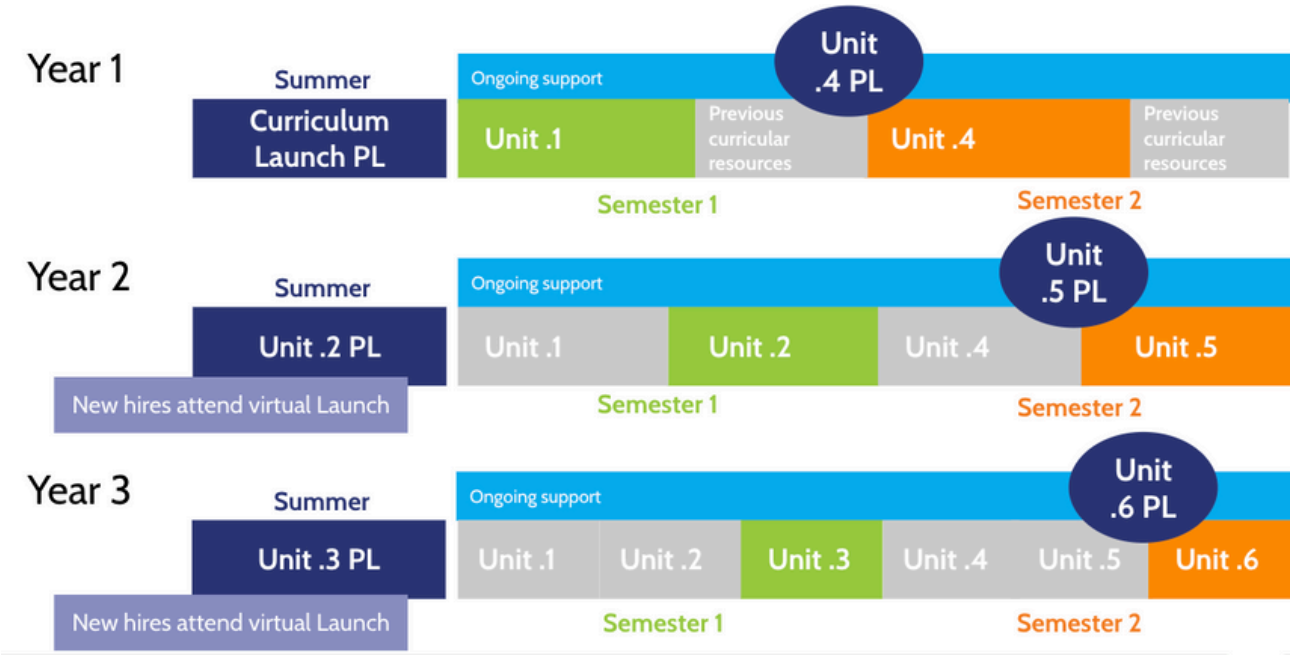
Topic	Focal Unit Options
Curriculum Launch	6.1 Light & Matter, 7.1 Chemical Reactions & Matter, 8.1 Contact Forces, 6.2 Thermal Energy, 7.3 Metabolic Reactions, 8.2 Sound Waves
Student Sensemaking	6.2 Thermal Energy, 7.2 Chemical Reactions & Energy, 8.2 Sound Waves, 7.4 Matter Cycling & Photosynthesis, 8.3 Forces at a Distance
Equitable Discussions	6.3 Weather, Climate & Water Cycling, 7.3 Metabolic Reactions& Energy, 8.3 Forces at a Distance
Universal Design for Learninig	6.4 Plate Tectonics & Rock Cycling, 7.4 Matter Cycling & Photosynthesis, and 8.4 Earth in Space
Innovative Assessments	6.4 Plate Tectonics & Rock Cycling, 6.5 Natural Hazards, 7.5 Ecosystems Dynamics & Biodiversity, 8.5 Genetics
Making Thinking Visible	6.6 Cells & Systems, 7.6 Earths Resources & Human Impact, 8.6 Natural Selection & Common Ancestry

High School

Topic	Focal Unit Options
Curriculum Launch	B.1 Ecosystem Interactions & Dynamics, C.1 Thermodynamics in Earth's Systems, P.1 Energy Flow from Earth's Systems
Equitable Culture for Sensemaking	B.2 Ecosystems: Matter & Energy, C.2 Structure & Properties of Matter, P.2 Energy, Forces, & Earth's Crust
Coherent 3D Assessments	B.4 Natural Selection & Evolution of Populations, C.4 Chemical Reactions in our World, P.5 Electromagnetic Radiation
Universal Design for Learning	B.3 Inheritance & Variation of Traits, C.3 Molecular Processes in Earth's Systems, P.3 Collisions & Momentum

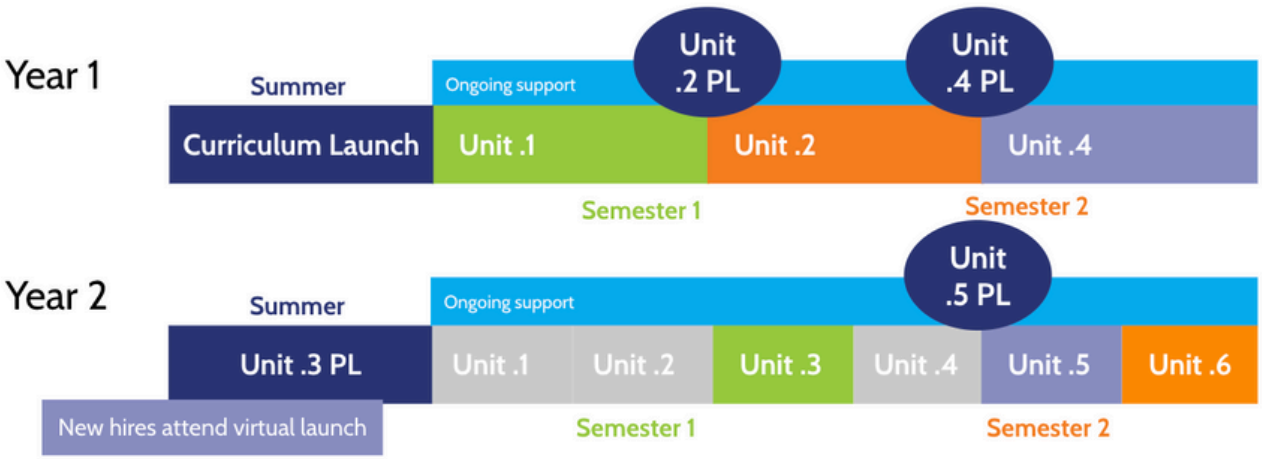
Implementation Models

Three-Year Implementation Timeline



Navigating a new curricular resource can be a challenging transition. Additionally, the instructional shifts called for in OpenSciEd can look different than previous science instruction. In order to provide the support and time teachers deserve to make these shifts, OpenSciEd recommends a multi-year rollout. In the three-year example above, teachers teach two new units per year with professional learning to support each new unit. New teacher hires can attend one of OpenSciEd's ticketed virtual events offered in the summers each year.

Two-Year Implementation Timeline



In the two-year implementation mode above, teachers teach three new units each year. Year 1 includes a greater investment of time for professional learning than the three-year model. An OpenSciEd representative is happy to talk through different implementation models to help you make the best decision for you setting and constraints.

More info

Customization

Customization requests for the OpenSciEd standard services will be considered. Customization options may include adjustments such as: changing the number of days, having one facilitator working with a mixed grade level group, or pairing a focal unit with a different topic. All off-menu customizations will incur an additional cost of $750/day.

Scheduling

Events scheduled with OpenSciEd Professional Learning must have a signed contract in place at least 45 days before the event date.
Event requests for summer 2024 professional learning (events in June, July, or August) must have a contract in place by May 17th, 2024.
Any requests outside of these parameters will be directed towards one of our Certified Professional Learning Partners.

Request services

UPCOMING PUBLIC EVENTS

@OpenSciEd
openscied.org/professional-learning

"[During the professional learning] I had to think like my students, and a lot of times I don't think like my students. I want my students to think like me."
- OpenSciEd Teacher

"This was fantastic training, some of the best training I've had in my 30 years of teaching. Not a sales pitch. A real, useful professional learning activity that honored me as an educator."
- OpenSciEd Teacher, Blaine, Washington