

Sage Oak Al Nexus

Where Innovation, Instruction, and Intelligence Converge

Leading the future of Al-integrated education



Four Pillars of AI Excellence

Efficiency

Streamline and Automate

Innovation

Custom Powered Al Tools and Al Driven Programs



Student Outcomes

Achievment, Equity, and Wonder

Organizational Transformation

Fundamental Redesign

Pillar One:

Efficiency

Streamline & Automate

Streamlining Systems to Power Innovation

Optimize Sage Oak's teaching, assessing, and assigning systems to ensure consistency, clarity, and scalability across the organization. By creating efficient structures, we free up capacity for educators and students to focus on deeper learning and future-ready skills.

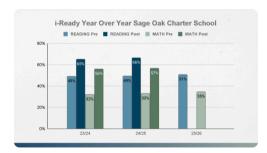
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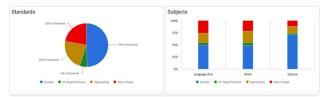
Data Dashboards

NOW...



FUTURE...



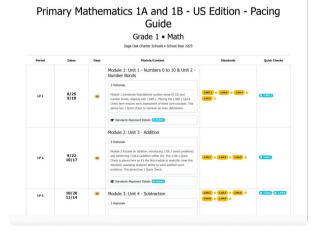


Workflow Optimization

NOW...



FUTURE...



Automated Portfolios

NOW....

	ELA and Math Progress Towar	rd Standard		Other Curricular and Student Lean	ning Outcomes
OT	On target to meet or exceed grade I	level standards	OE	On or exceeds expectations	
AT	Approaching target to meet grade le	ivel standards	AE	Approaching expectations	
NT	Not on target to meet grade level st	andards	NE	Not approaching expectations	
	Concept will be addressed second s	semester	X	Curricular area not addressed	
GO	Progress reported on goals and objectudents only)	ectives (mod/severe	GO	Progress reported on goals and objectudents only)	ectives (mod/severe
Engli	sh Language Arts	Semester 1 (Fall)	Math	ematics	Semesti 1 (Fall)
Litera	ture	OT	Open	tions and Algebraic Thinking	OT
Inform	national Text	OT	Numb	er and Operations in Base 10	OT
Found	fational Skills	OT	Meas	urement and Data	OT
Writin	9	OT	Geon	etry	OT
Speak	king and Listening	OT	_		-
Langu	sage	OT	Stud	ent Learning Outcomes	Semesti 1 (Fall)
		Semester	Servi	e	OE
Other	Curricular Areas	1 (Fall)	Acco	intability	OE
Scien	ce	OE	Grow	h Mindset	OE
Social	Studies	OE	Excel	lence	OE
Speci	al Interest	X	_		

FUTURE...

w	8.NS.1	Know that numbers that are not rational are called irrational. Understand informally th	v
w	8.NS.2	Use rational approximations of irrational numbers to compare the size of irrational num	v
w	8.EE.2	Use square root and cube root symbols to represent solutions to equations of the form x	v
w	8.EE.1	Know and apply the properties of integer exponents to generate equivalent numerical exp	~
A	8.EE.4	Perform operations with numbers expressed in scientific notation, including problems wh	v
w	8.EE.3	Use numbers expressed in the form of a single digit times an integer power of 10 to est	v
w	8.EE.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph	v
w	8.EE.6	Use similar triangles to explain why the slope m is the same between any two distinct p	,
w	8.EE.7	Solve linear equations in one variable.	,
w	8.EE.7.a	Give examples of linear equations in one variable with one solution, infinitely many so	
w	8.EE.7.b	Solve linear equations with rational number coefficients, including equations whose sol	
w	8.EE.8	Analyze and solve pairs of simultaneous linear equations.	,
w	8.EE.8.a	Understand that solutions to a system of two linear equations in two variables correspo	v
ĸΤ	8.EE.8.b	Solve systems of two linear equations in two variables algebraically, and estimate solu	,
45	8.EE.8.c	Solve real-world and mathematical problems leading to two linear equations in two varia	
w	8.F.1	Understand that a function is a rule that assigns to each input exactly one output. The	ŭ
	8 F 2	Compare properties of two functions each represented in a different way (algebraically	

Pillar Two:

Innovation

Fully integrated, Custom AI-Powered Tools

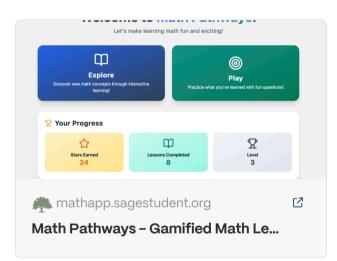
Building a Future AI Academy to improve student outcomes

Elevate Sage Oak by pioneering an Al Academy powered by innovative, in-house developed curriculum that sets new standards for Al-integrated education.

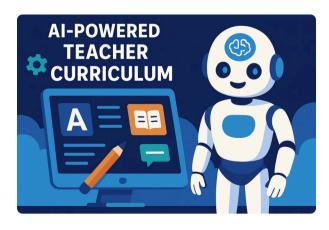
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Students

Now....



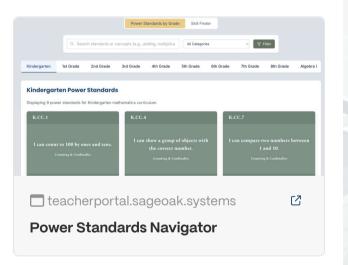
Future....



2

Teachers

Now...



Future...



3

Parents

Now...

7	Enrichment
	Extends learning beyond grade level for deeper challenge. These activities are designed for our advanced learners.
H	Reinforcement
	Provides extra practice to strengthen skills. These activities are designed for our students working at grade level.
*	Remediation
	Targets gaps to help master missed skills. These activities are designed for students who may be below grade level or have skill gaps in the area of math.
derga	rten Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6
nderga	rten Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6
nderga	rrten Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6
s K	riten Grade 1 Grade 2 Grade 3 Grade 4 Grade 5 Grade 6 CC.1 – I can count to 100 by ones and tens.
s K	CC.1 – I can count to 100 by ones and tens.
S K	CC.1 – I can count to 100 by ones and tens.
S K	CC.1 – I can count to 100 by ones and tens.

Future...



Pillar Three

Student Outcomes

Achievement & Equity

Driving Achievement Through Personalization and Real-timeInsights

With streamlined systems (Pillar One) and innovative AI-powered tools (Pillar Two) in place, Sage Oak is positioned to elevate measurable student learning. **Student outcomes become the clearest validation of our work**: every system and innovation is designed to enhance growth, mastery, and student achievement.

2

Personalized Learning

Al-driven individualization that meets each student where they are and accelerates growth.

Real-Time Adaptation

Data-driven insights and predictive analysis enables true one-to-one customization.

Equity Focus

Al tools designed to close achievement gaps and ensure equitable access to high-quality education.

Pillar Four

Organizational Transformation

Fundamental Redesign

Scaling Excellence to Redefine Education

The Outcome: Organizational Transformation is the culmination of the first three pillars—a holistic evolution that establishes Sage Oak not just as a school, but as a **destination and model for what the future of education can be.**

System Redesign

Reimagining educational structures and processes from the ground up with Al at the center.

Integrated Platforms

Comprehensive ecosystems that connect all aspects of the educational experience.

Cultural Shift

Fostering an organizational culture that embraces Al-driven innovation and student centered applications.

Al Nexus Team Structure

Central hub-and-spoke structure with specialized directors leading strategic initiatives



Director of Technology

Managing technical infrastructure and implementation



Director of AI Strategy & Innovation

Leading strategic vision and innovation initiatives



Director of Learning & Student Achievement

Driving instructional excellence and student outcomes

Director of Information Technology

Operational Optimizer for Scalable and Secure Innovation

Ensure the secure, scalable, and compliant implementation of all AI technologies.

and Innovation

Strategic Integrator, Vision Steward, & Cross-Department Catalyst

Director

of AI Strategy

Ensure AI is implemented holistically, responsibly, and in alignment with Sage Oak's vision.

Director
of Learning
and
Student
Achievement

Academic Strategist for Innovation & Student Outcomes

Ensures instructional strategies, curriculum design, and student performance remain the central driver of Al implementation.

Full Stack
Developer/Al
Engineers

Design, build, and maintain Alpowered tools Sage Oak AI Nexus

Where Innovation, Instruction, and Intelligence Converge

Curriculum Specialists

Collaborate with developers to align AI tools with standards, assessments, and best practices

Instructional Focus in the Nexus

Led by the Director of Learning & Student Achievement, these implementation strands within the Student Achievement lane of the Nexus drive curricular transformation and instructional excellence.

1

Al Literacy Standards (K-12)

Develop robust Al literacy and fluency standards that prepare students for an Al-integrated world through backward design from college and career readiness outcomes.

- Backward design from college and career readiness outcomes
- Deep understanding beyond surface-level tool usage
- Authentic opportunities to apply AI in projects and problem-solving

2

Measuring AI Tool Impact on Instruction

Establish clear metrics and protocols to measure educational effectiveness of AI tools before and after implementation.

- Evidence-based decisions that resist flashy technologies
- Resource optimization toward proven solutions
- Continuous improvement through ongoing data cycles

Awareness

Literacy

Fluency

Learn ABOUT AI; Focus on Literacy

- · Build literacy (reading, writing, speaking, mathematical), media literacy, & critical thinking, & computational skills
- Learn ABOUT AI indirectly
- . What Al is, how to spot when Al is used, Al is not human
- Avoid direct or indirect exposure to Al chatbots.



+ Engage with AI* + Create with AI, Manage AI*

Grades 6-8

Engage with and manage age-appropriate Al tools with teacher oversight

- · Decide whether to use AI or not based on the task.
- Manage simple tasks with AI tools
- Evaluate & critique Al outputs to ensure fairness and accuracy



+ Design Solutions with AI*

Grades 9-13+

Learn to work ALONGSIDE AI

- · Prototype & iterate Al-powered solutions to real-world problems
- Audit model outputs for accuracy, bias, and human impact
- Lead ethical, human-AI collaboration projects that add value to society



Knowledge, Skills, Attitudes (K, S, A)*

K- Understand what Al is; Al is not human

Spot When AI is used; modern media literacy

A-Curiousity & wonder

K- How Al works & How data shapes bias

S- Prompt & refine; Manage simple tasks

A- Responsibility & Adaptability; Fair-minded judgement

K- Model mechanics & Societal impact

S- Prototype & Audit Al

A- Ethically-minded leadership

*Domains and KSA from the Al Literacy Framework OECD, EU, Code.org (ailiteracyframew ork.org_

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<-- AI Ethics & Safety Infused Throughout All Grades -->

Made with **GAMMA**

Smarter Innovation, Without Reinvention

Comprehensive collection of AI implementation guides, toolkits, and educational frameworks to support our AI integration journey.



Al Implementation Recommendations and Considerations

View Resource



Al Resources

View Resource



Al in Education

View Resource



Al Guide for Students

View Resource



Al Student Learning Framework

View Resource



TeachAl Toolkit

View Resource