**CLAY COUNTY DISTRICT SCHOOLS** 

# Penda Learning

**Science Resource Information** 

February 27, 2024



### **Clay County Science Scores**

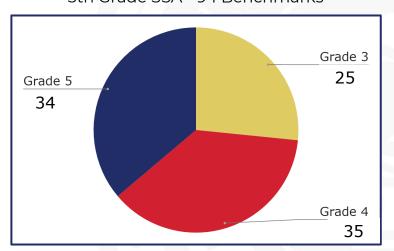
	Average Scale Score	State Average	State Ranking
<b>Grade 5 SSA</b> (3rd-5th Grade Benchmarks)	206	199	#6
<b>Grade 8 SSA</b> (6th-8th Grade Benchmarks)	205	198	#5
Biology EOC	411	403	#7
Overall			#4



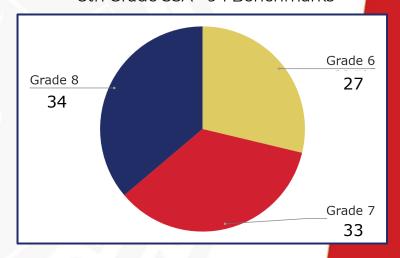
### **State Science Benchmarks**



5th Grade SSA - 94 Benchmarks



8th Grade SSA - 94 Benchmarks



### **Biology**

54 Total Benchmarks 22 Benchmark Groupings

## **Science Instructional Model**



#### **5E Lesson Planning Elementary Toolbox**

UNIT	DATES	BENCHMARK(S)	LEARNING TARGETS

EE, MTR or SEP **Nature of Science** 

ENGAGE	EXPLORE	EXPLAIN	ELABORATE	EVALUATE
How will you "hook" your students into this topic? How will you activate their prior knowledge and identify misconceptions?	How will students discover the key concepts of this lesson? What should they be able to explain to you at the end? What nature of science skills are students using?	How will students explain their understanding of the topics based on their investigation? How will you determine who has mastered the content and who is struggling?	What do struggling students need to master the benchmark? What would help the students that are almost proficient understand the benchmark? How will you extend the knowledge of students that have already demonstrated mastery?	You are assessing students throughout this SE cycle- but how will you determine mastery of the content? What summative assessment would allow you to determine if you are ready to move on to the next topic or if additional remediation is required?
EST TIME: ½ Day*	EST TIME: 1-2 Days*	EST TIME: 1-2 Days*	EST TIME: 1 Day*	EST TIME: 1 Day*
ACTIVITY/RESOURCES	ACTIVITY/RESOURCES	ACTIVITY/RESOURCES	ACTIVITY/RESOURCES	ACTIVITY/RESOURCES
Teacher Demonstration Engaging video clip Misconception question/probe (Uncovering Student Ideas by Page Keely) What's in the Box (with item related to the unit) Practice Problem(s) Essential Question	HMH Inquiry Labs     CPALMS Labs     Computer     simulations/digital labs     Field experiences     Virtual Field Trips     Phet Labs (also available in Penda)	HMH Textbook     Floridastudents.org     Tutorials with notes     HMH Virtual Lessons     with notes     CER Prompts     Revisiting Essential     Questions     Interactive/MetaNotes     Penda Whole-group     Lesson	Developing Jeacher Led Small Group Penda Developing Penda Review Achieving Penda Achieving Penda Achieving Penda Achieving Penda Review Small group lab FSSA Review Workbook Anchor Charts/Gallery Walk Exceeding Penda Exceeding Anchor Charts/Gallery Walk Enrichment Research	Common Assessments from PLC work HMH Assessments 'leacher Created Assessments Revisiting Essential Questions Penda Assessments  Penda Assessments

### What Penda is...

- Supplemental resource
- Support for small groups
- Support for ESE and ELL students
- Quick Checks for Understanding

### What Penda is not...

- Independent computer instruction
- Full class lesson plan
- Daily lesson plan

FL Elementary School + Assessments

Heat Conduction (Developing)



#### Learn It!

We feel thermal energy as heat. Heat flows between objects. It flows from hot to cold.

Conduction is the transfer of heat energy through direct contact.

Cooking food in a pan is an example of heat being conducted. Heat energy from the hot pan transfers into the cold food.

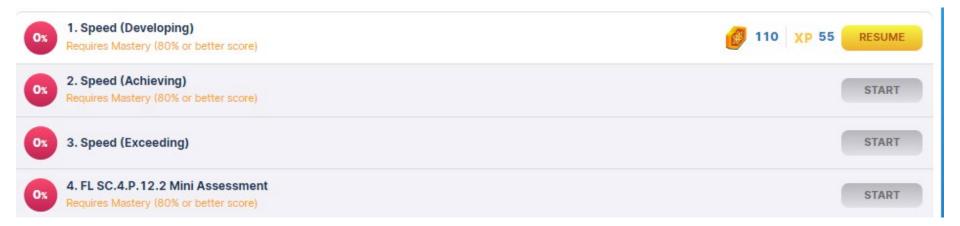






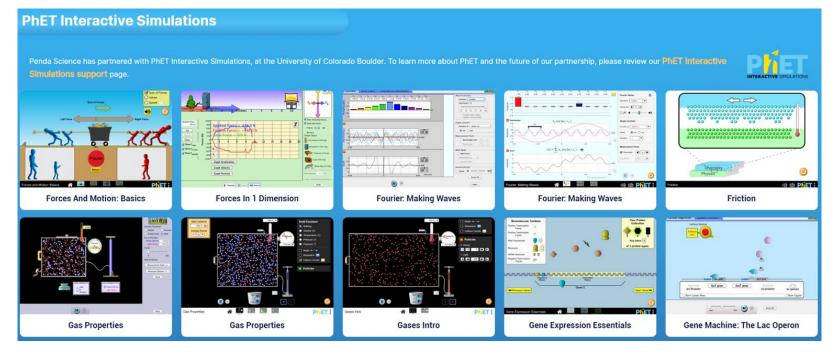


# What is Penda? Benchmark Instruction at 3 Reading Levels 5 Question Mini Assessments for Each Benchmark





### What is Penda? Access to Digital Lab Simulations





# What is Penda? Immersive Reader Options





# What is Penda? Ability to Assign Activities to Class, Small Group, or Individual Student

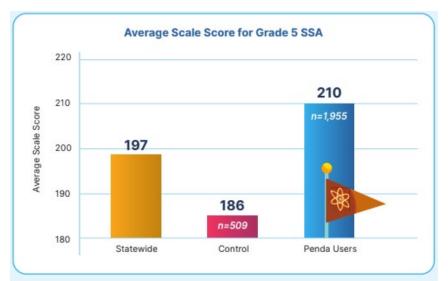
### **GROUPS**

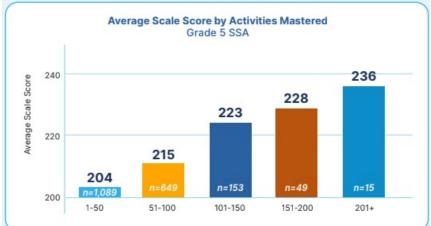
NAME	STUDENTS	TEACHERS	GRADE LEVEL	AUTHOR	TYPE	STATUS	ACTIONS
Early Finisher	1	1	FL Middle School + Assessments	Campbell, Robin	Class Level	Active	O VIEW
Make Up 1	8	1	FL Middle School + Assessments	Campbell, Robin	Teacher Level	Active	O VIEW
Make Up 2	7	1	FL Middle School + Assessments	Campbell, Robin	Teacher Level	Active	O VIEW
Make Up Work	1	1	FL Middle School + Assessments	Campbell, Robin	Teacher Level	Active	O VIEW



# Clay & Penda's Success Story

- District recommendation for usage:
  - Complete 2-3 activities per week
  - Reach 80% mastery on each activity
  - Have a written component note taking strategy evident
- 200 = Level 3
- 215 = Level 4
- 225 = Level 5



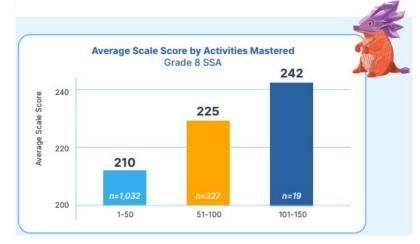




# Clay & Penda's Success Story

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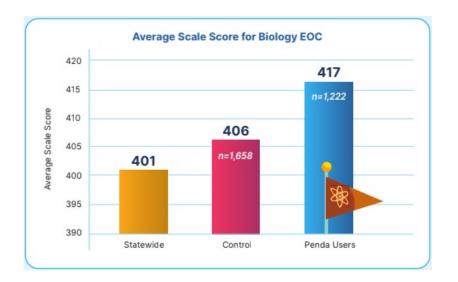






# Clay & Penda's Success Story

- 395 = Level 3
- 421 = Level 4
- 431 = Level 5



### Average Scale Score by Activities Mastered Biology EOC





## Penda Usage in Clay in 2023-2024

Product	Total Active Students	Average Minutes per Week	Average Score
Elementary	7515	16 minutes	86%
Junior High	6763	11 minutes	87%
High School	5236	8 minutes	86%
Totals	19502	12 minutes	86%



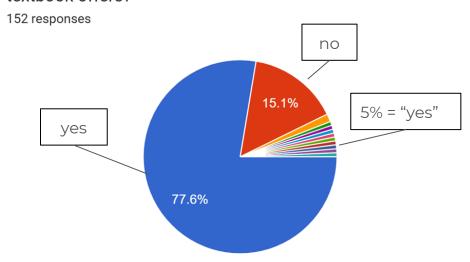
## Penda Usage by Grade in 2023-2024

Product	Total Active Students	Average Minutes per Week
3rd Grade	2369	9 minutes
4th Grade	2561	13 minutes
5th Grade	2663	24 minutes
6th Grade	2637	12 minutes
7th Grade	2755	9 minutes
8th Grade	2553	10 minutes
9th Grade	2347	9 minutes
10th Grade	1414	8 minutes



## Penda Teacher Feedback Survey

Do you feel that Penda provides a necessary support for science instruction beyond what the textbook offers?





### Penda Teacher Feedback Survey

What is your recommendation for a supplemental science program for the 2024-2025 school year?

