Texas Education Agency

TEKS Guide 101

TEA Science Curriculum Team

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Today we will —

- explain what the science TEKS Guide is;
- review the components of the science TEKS Guide; and
- answer questions about using the science TEKS Guide.

Components of the Science TEKS Guide

- The Student Expectation
  - Student expectations with detailed explanations and glossary support
- Overview
  - Further explanations, demonstrated proficiency (*K–2), glossary support, and supporting information
- Alignments
  - Recurring themes and concepts (*K–8)
  - Vertical alignment
  - Cross-curricular connections (*K–8)
  - Side-by-side

Components of the Science TEKS Guide

Component	K	1	2	3	4	5	6	7	8	Bio	IPC	Chem	Phys
Detailed Explanation Rollovers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Demonstrated Proficiency	✓	✓	✓										
Further Explanations	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Glossary Support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Supporting Information (Research)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Components of the Science TEKS Guide Continued

Component	K	1	2	3	4	5	6	7	8	Bio	IPC	Chem	Phys
Vertical Alignment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recurring Themes and Concepts Alignment	✓	✓	✓	✓	✓	✓	✓	✓	✓				
Cross-curricular connections	✓	✓	✓	✓	✓	✓	✓	✓	✓				

Science TEKS Guide – The Student Expectation

Science.K.13.B

Previous Next

The student is expected to identify the different structures that animals have that allow them to interact with their environment such as seeing, hearing, moving, and grasping objects;

Science TEKS Guide – The Student Expectation

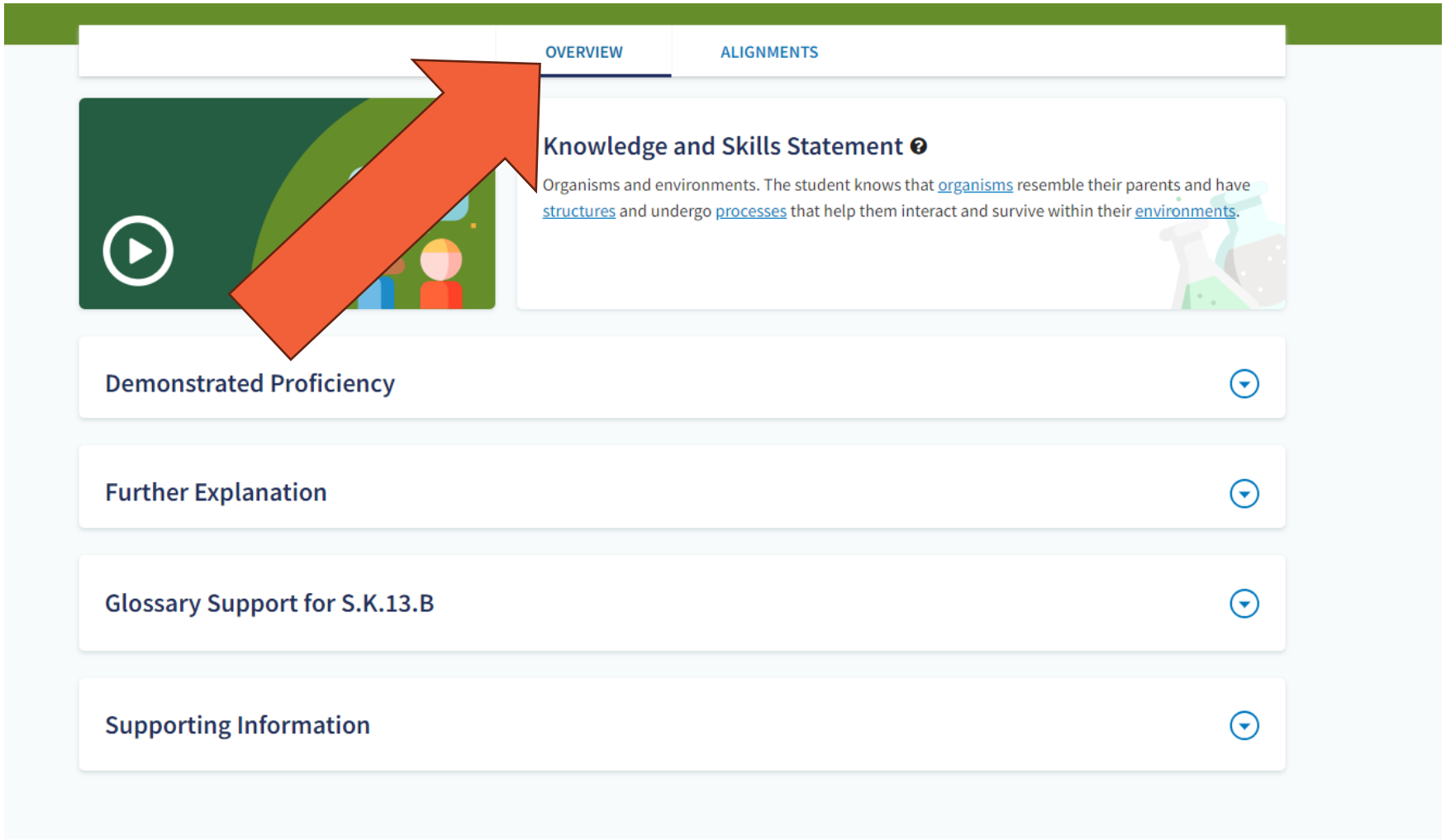
Detailed Explanations

- Rollovers that call out a specific word or phrase in a student expectation
- Provides clarity and consistency for educators
- *May* include an instructional boundary
  - support Tier 1 instructional expectations for **all** students
  - provide scaffolds for students who need support
  - provide enrichment for students who are ready to move beyond the baseline

Glossary Support

- Rollovers that define a term at the teacher level
- Same definition k–12
- Dedicated section as well as rollovers

Science TEKS Guide – The Overview Section



Science TEKS Guide – The Overview Section

Demonstrated Proficiency*

- Developed for kindergarten – grade 2
- Provides an example of how to assess a student expectation
- Provides descriptions of grade level appropriate responses from students

Further Explanation

- Provides additional background information and context for teachers.
- May include misconceptions, vertical alignment notes, examples, deeper scientific understanding
- Designed for educator understanding—not a student grade level appropriate understanding

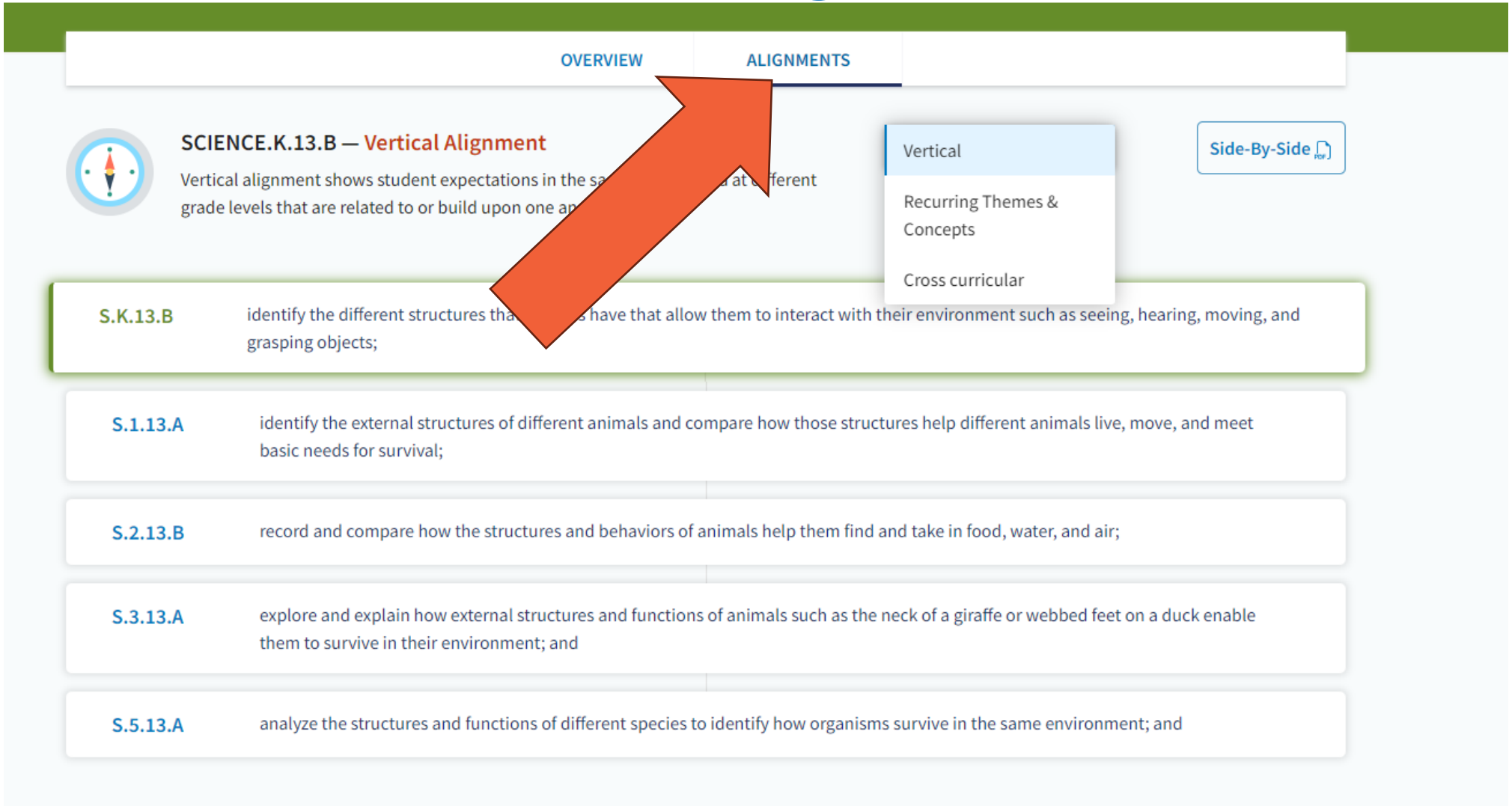
Glossary Support

- Same definition K–12
- Intended to develop a consistent understanding of the terms regardless of grade level taught
- Not student level definitions

Supporting Information

- Research articles which support the content
- In K–8, more focused on integration of content and pedagogy
- In high school, more focused on research happening in the field

Science TEKS Guide – The Alignments Section



Science TEKS Guide – The Alignments Section

Vertical alignment

- Developed K–High school
- Progression of concepts from one grade level to the next

Recurring themes and concepts alignment*

- Developed K–8
- Connective structure that spans all science content
- Provides teachers with a tool to help students understand how content fits into the broader understanding of science today

Cross-curricular connections*

- Developed K–8
- Content connections within a grade level between science and math, social studies, English language arts, and technology applications
- May be used to build lessons that reinforce content from different subject areas

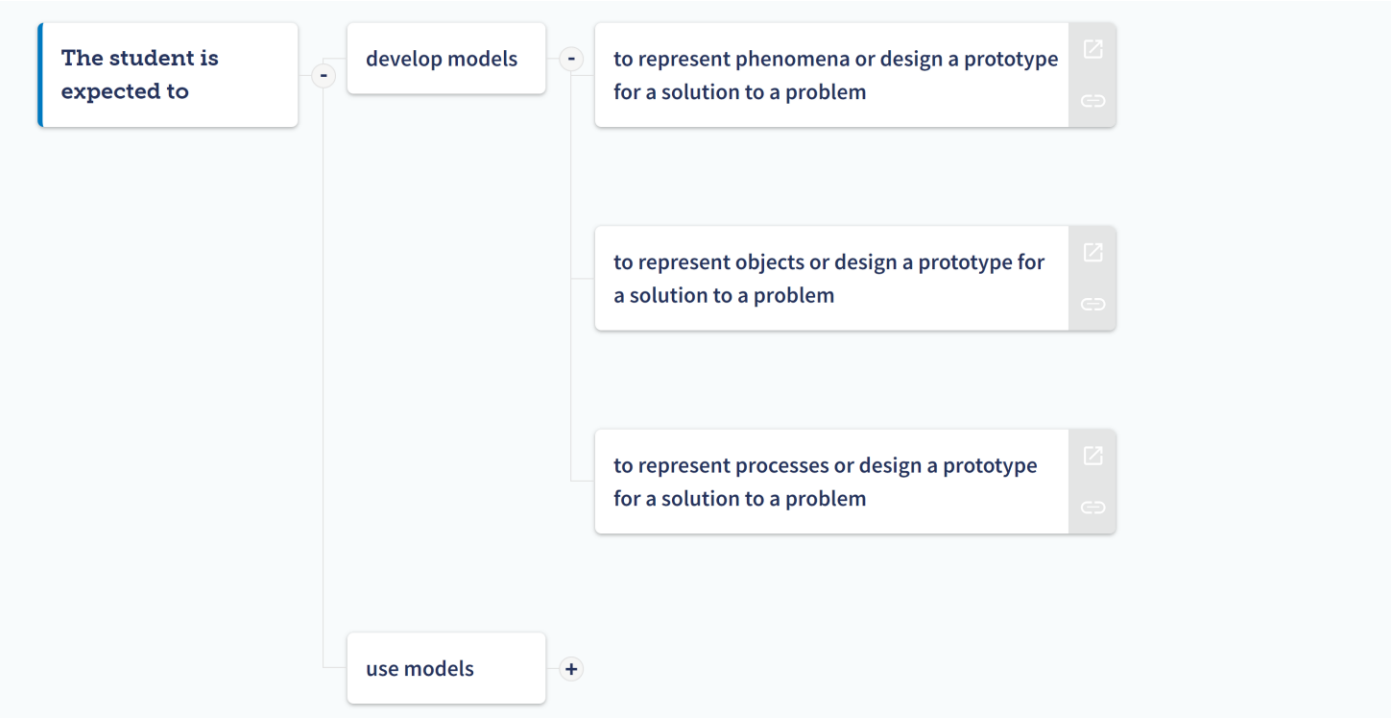
Side-by-Side

- Direct comparison of old standards to new standards
- Will remain posted until the end of the 2025–2026 school year

Science TEKS Guide – The Alignments Section Continued

Science.K.1.G

The student is expected to develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.



Breakouts

- Developed K–High school
- Visual way to deconstruct a student expectation into its component parts
- In production

Poll

On a scale of 1 – 10, how likely are you to recommend the Science TEKS Guide to colleagues?

Certificates

https://bit.ly/TEKSGuideJuly9

Note: You must download the certificate before filling your information in.

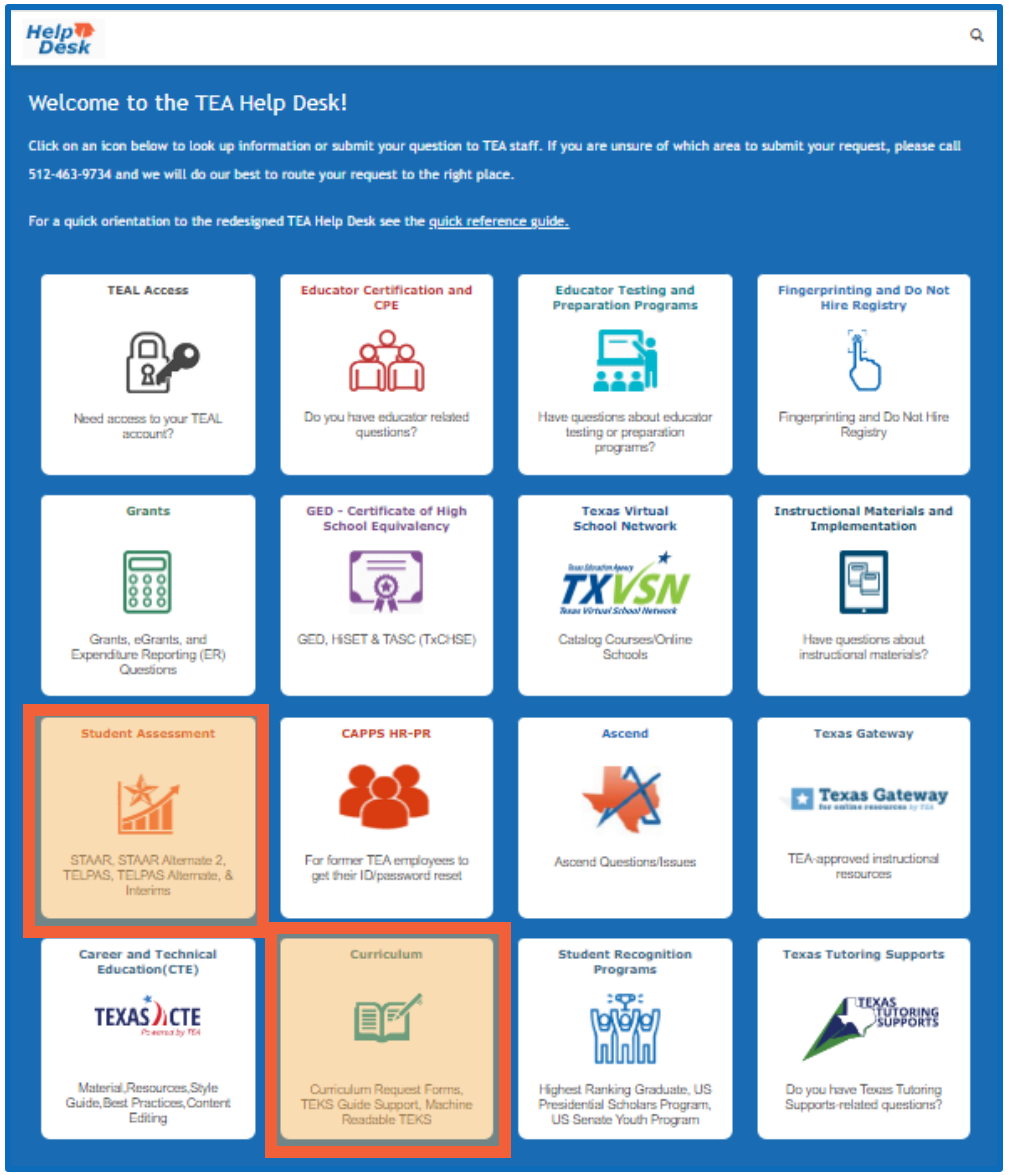
Questions

TEA Help Desk

For questions or help on topics related to science:

- Curriculum
- Assessment

https://helpdesk.tea.texas.gov/



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