MENU

Research-Based ELL and STEM Strategies

Speak Agent is a Research-Based Design Certified product line that accelerates learning of key academic concepts and develops math and science communication skills. We intentionally designed each activities as vehicles to apply specific research-based strategies curated by the Learner Variability Project. These **Content+Language**™ strategies provide the learning sciences basis for all student work in Speak Agent. These strategies are organized into our unique Academic Language Learning Model. In addition to the research-based ELL learning strategies, Speak Agent also provides a wide variety of learning supports for ELL, low-SES, and exceptional learners.

Workspaces: A Deeper Dive

In partnership with Digital Promise, we co-developed a tool for deeper exploration of each active learning strategy. The workspaces are tools for quickly finding additional resources such as classroom videos from educators like you, articles, examples, research citations, and many, many more strategies than we can possibly fit on this page!

ELL Strategies Workspace

Learn more about effective academic content and language integration strategies for English Learners:

Visit ELL Workspace

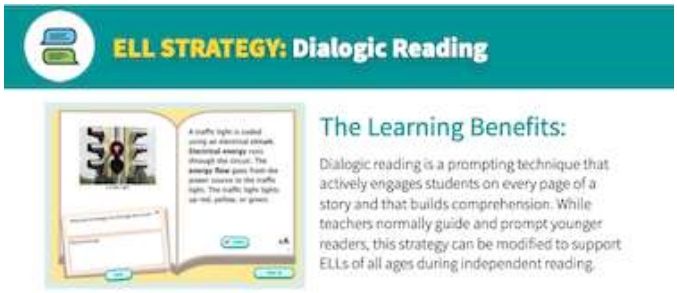
Math Strategies Workspace

Learn more about effective teaching strategies for Math+Language concept mastery, modeling, and reasoning:

Visit Math Workspace

The following represent just a small sampling of the 36 research-based ELL and STEM strategies used in Speak Agent:

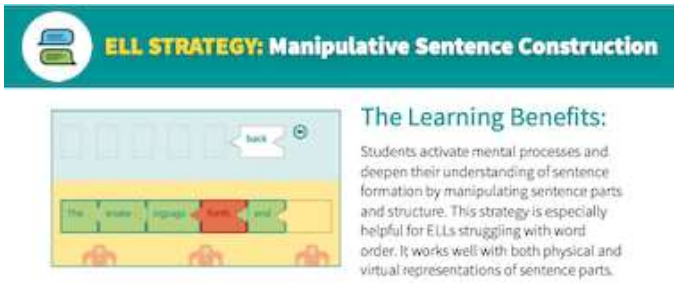
Dialogic Reading



Strategy Brief (PDF)

It's not just for early learners! Dialogic reading benefits math and science learners of all ages.

Manipulatives: Sentence Construction



Strategy Brief (PDF)

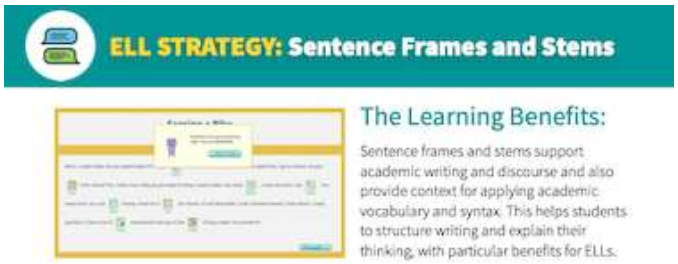
A strategy for English Learners that also supports math and science communication and reasoning.

PD Video (3m)

Learn how this strategy supports English Learners — and all STEM learners — along with tools for implementing it in your virtual or physical classroom.

Link to Google Jamboard cited in the video >>

Sentence Frames



Strategy Brief (PDF)

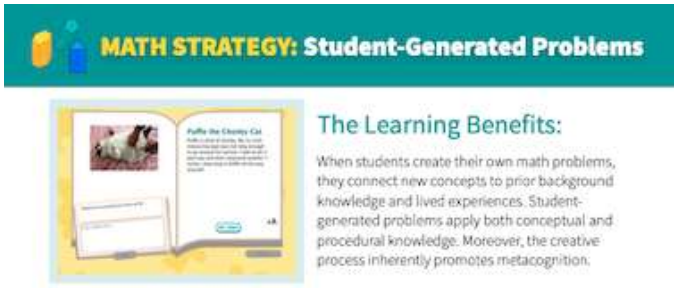
It's not just for early learners! Dialogic reading benefits math and science learners of all ages.

Real-World Math

Strategy Brief (PDF)

It's not just for early learners! Dialogic reading benefits math and science learners of all ages.

Student-Generated Problems



Strategy Brief (PDF)

It's not just for early learners! Dialogic reading benefits math and science learners of all ages.

PD Video (3m)

Learn about this highly effective strategy for math modeling and communication, plus digital tools for you to moderate the entire process.

Link to ideas list cited in the video >>

Visual Representations

Strategy Brief (PDF)

It's not just for early learners! Dialogic reading benefits math and science learners of all ages.

Writing Models

Strategy Brief (PDF)

It's not just for early learners! Dialogic reading benefits math and science learners of all ages.

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See concrete examples of how key strategies are implemented in Speak Agent:

- Dialogic Reading
- Manipulatives: Sentence Construction
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- Student-Generated Problems
- Visual-Representations
- Writing-Models

ELL Workspace

Find more ELL learning strategies here >>

Math Strategies Workspace

Find more Math+Language strategies here >>

Brought to you by:

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Learner Variability Project
Navigating Learner Variability

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