



Ready to unbox your Ideas?

How to use coding in a cross curricular setting.

Hello! I'm...

Kali Howe

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- Buffalo Prairie Middle School
- 6th Grade
 - Earth and Space Science
- 4th Year with CODERS

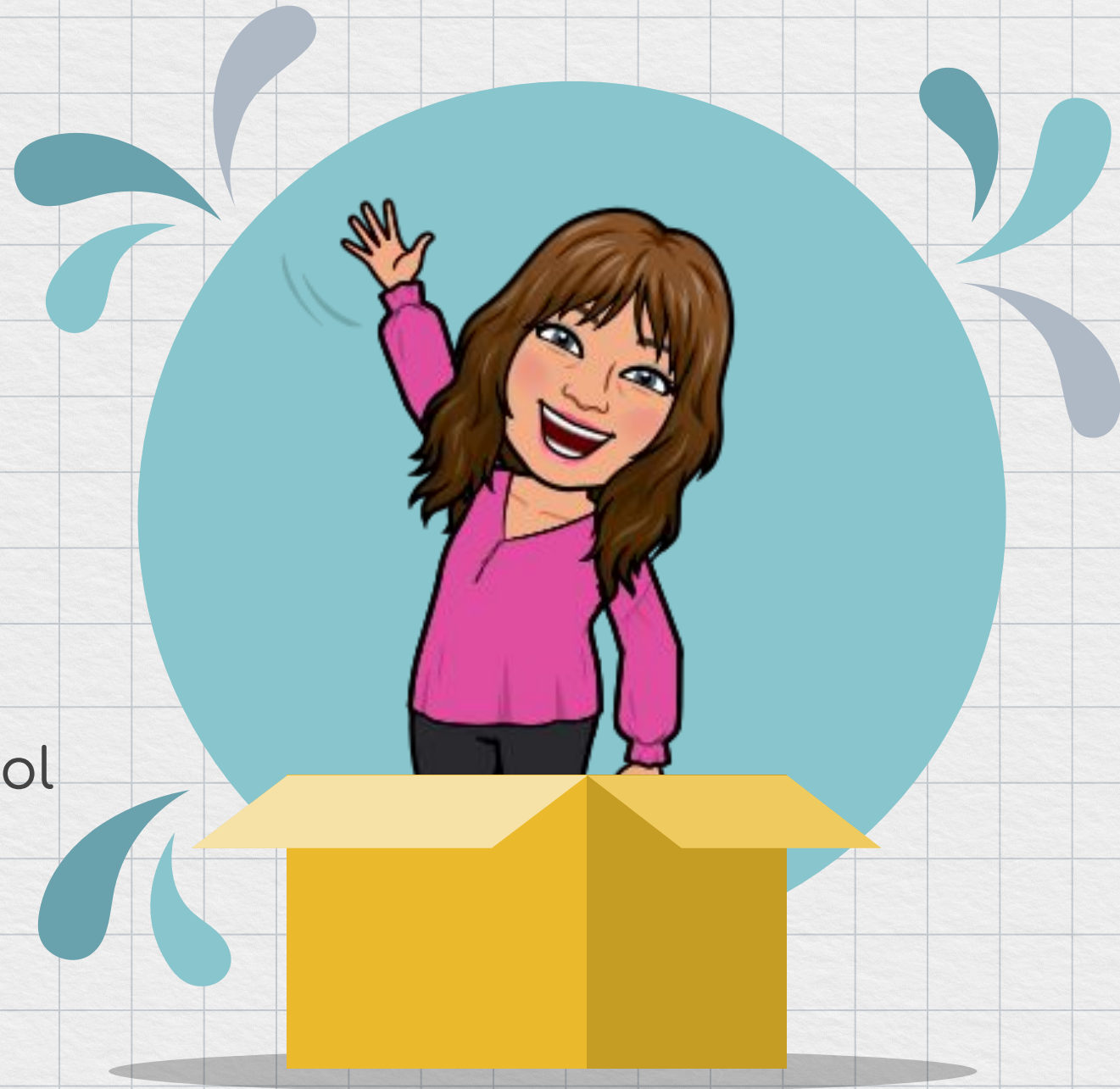


Hello! I'm...

Ashley Akins

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- Buffalo Prairie Middle School
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 - ELA - Writing
- 2nd Year with CODERS



Today's Topics Will Include

1



Computational Thinking

3



Micro:bits and Cute bots

2

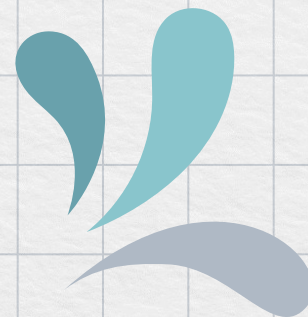


Careers Lesson

4

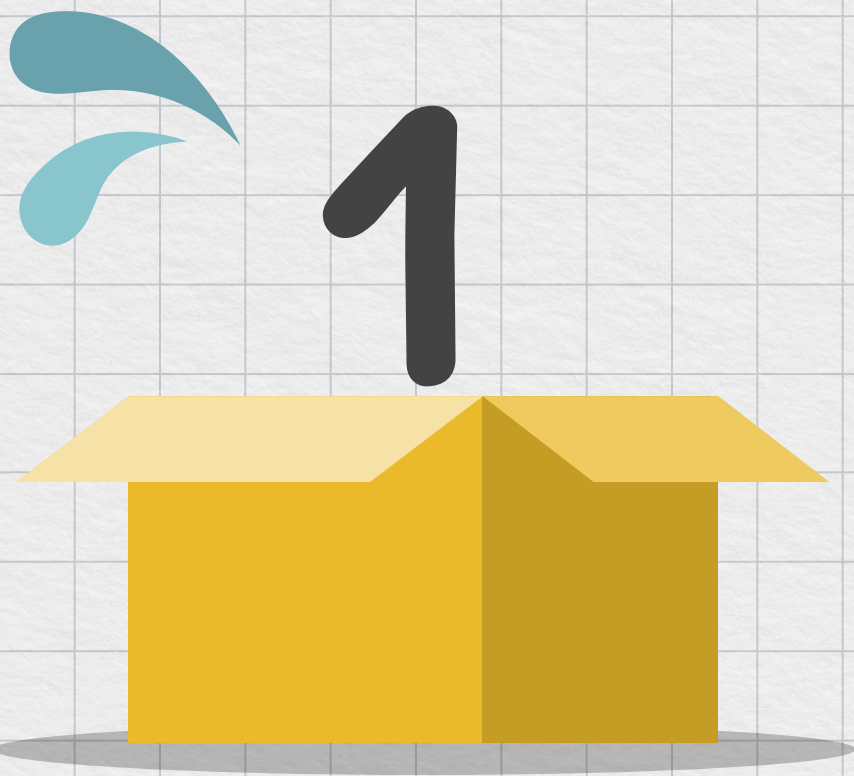


Extra knowledge to share



Computational Thinking

- Integrating Reading, Writing, and Science



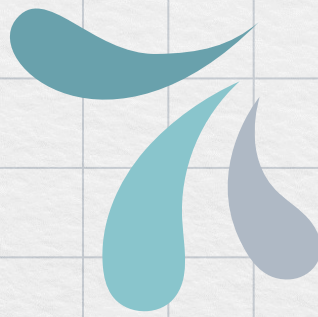
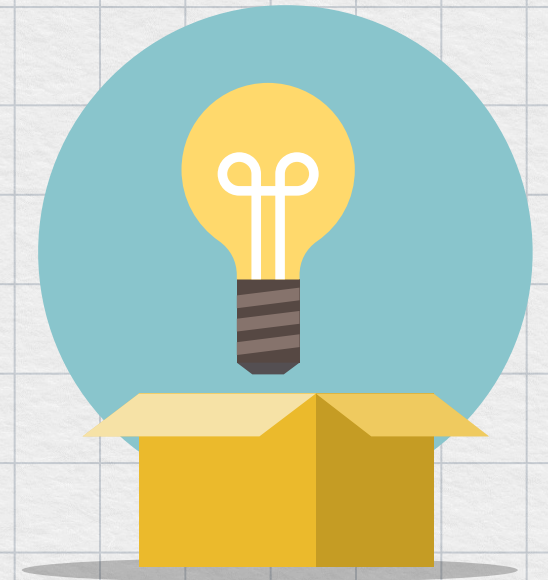
Mars Unit

Reading: Students will read different informational texts about Mars. They are focusing on the question “Should we explore Mars?”

Writing: Students will look at different Mars expeditions and research them. They will create a presentation over the expeditions and their findings.

Science: Students are learning about all of the planets and gravity

Coding: Computational thinking lesson “Mars Rover Obstacle Course”



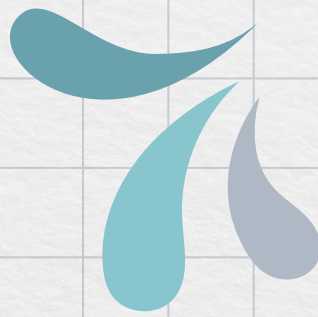
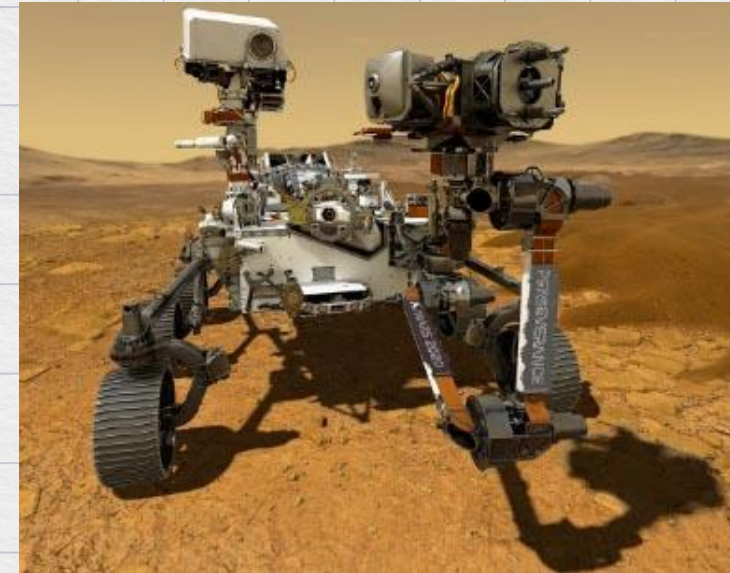
Cutebot on Mars!

Objective: Students will design and program a Cutebot to simulate Mars rover operations and explore the Martian surface, integrating their knowledge of Mars expeditions.

Students will be working in small groups to design and create a model of the Mars surface.

They will then create a step by step plan or “route” for the Cutebot to travel, navigating the terrain they created.

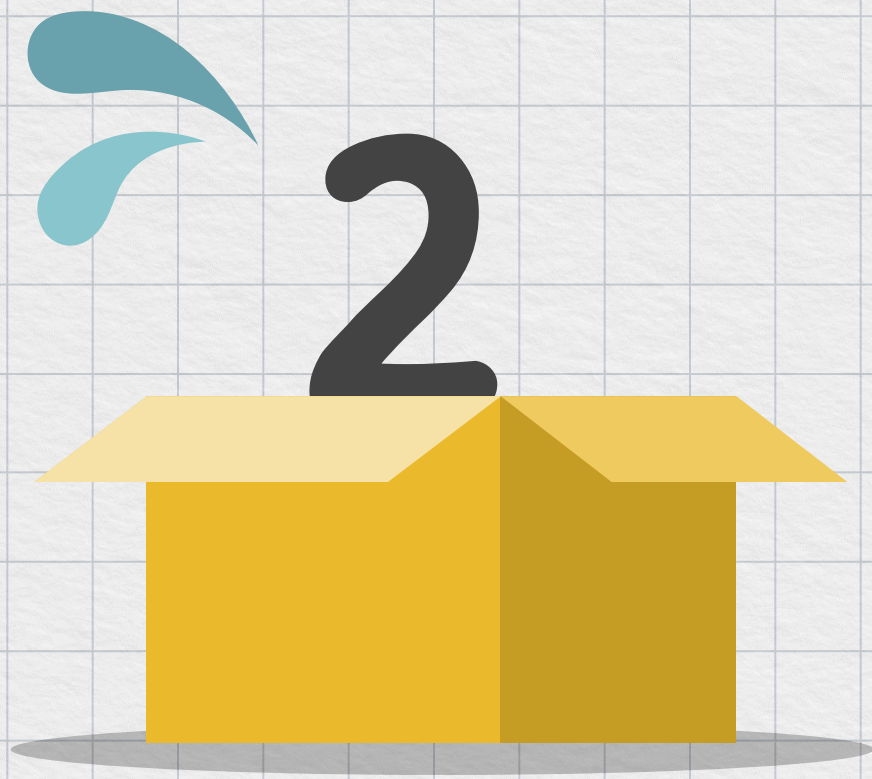
[Cutebot on Mars Lesson Plan](#)





Careers Lesson

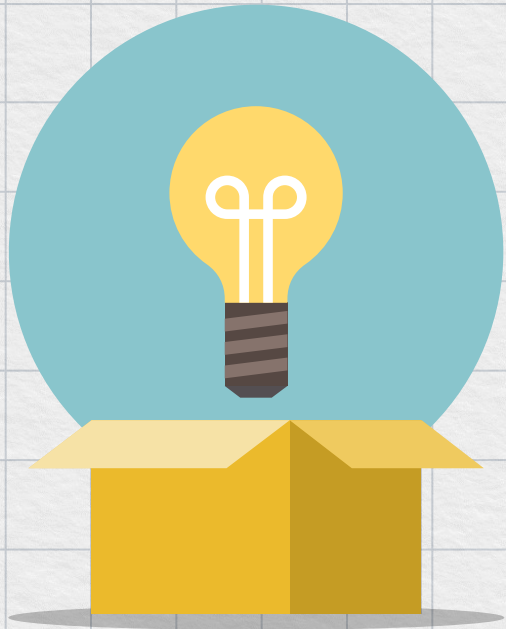
- Integrating Writing and Science



Careers

Science: They will discuss the term “computer science” and how its important today. The students will also watch a short video clip about various jobs in the computer science field.

Writing: They will spend time in ELA conducting research over their chosen computer science job. They will create a visual representation for their job.



Exploring Careers in Computer Science

Objectives:

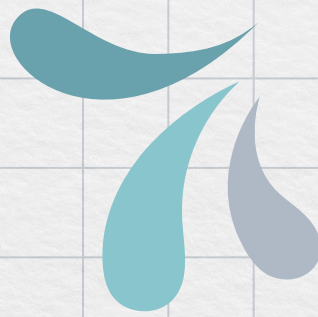
- ★ Students will research various careers in computer science.
- ★ Students will analyze information and summarize their findings.
- ★ Students will present their research through a written report and visual aid.

Students will be researching a specific job in computer science. They will find the following information:

- ★ Job descriptions and responsibilities
- ★ Required education and skills
- ★ Average salary and job outlook
- ★ Interesting facts about career

They will then present their findings to the class, using a poster or visual aid to enhance their presentation.

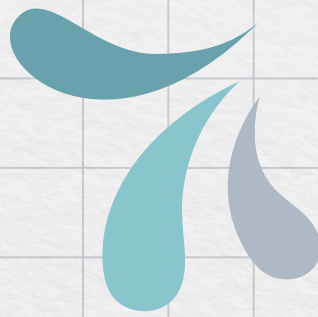
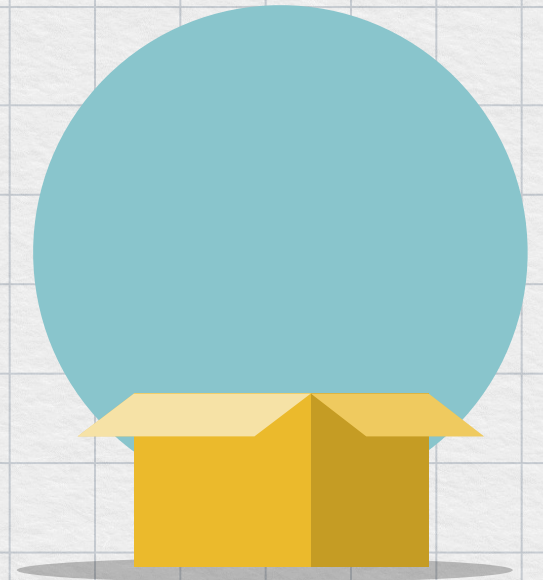
[Exploring Careers in Computer Science Lesson Plan](#)

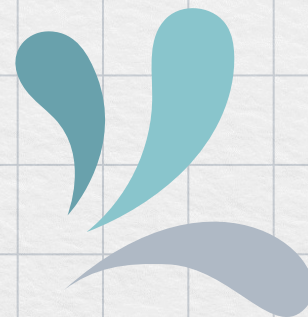


Extension Activity

We will invite a Buffalo graduate in to speak with the students about real world experiences in the computer science field.

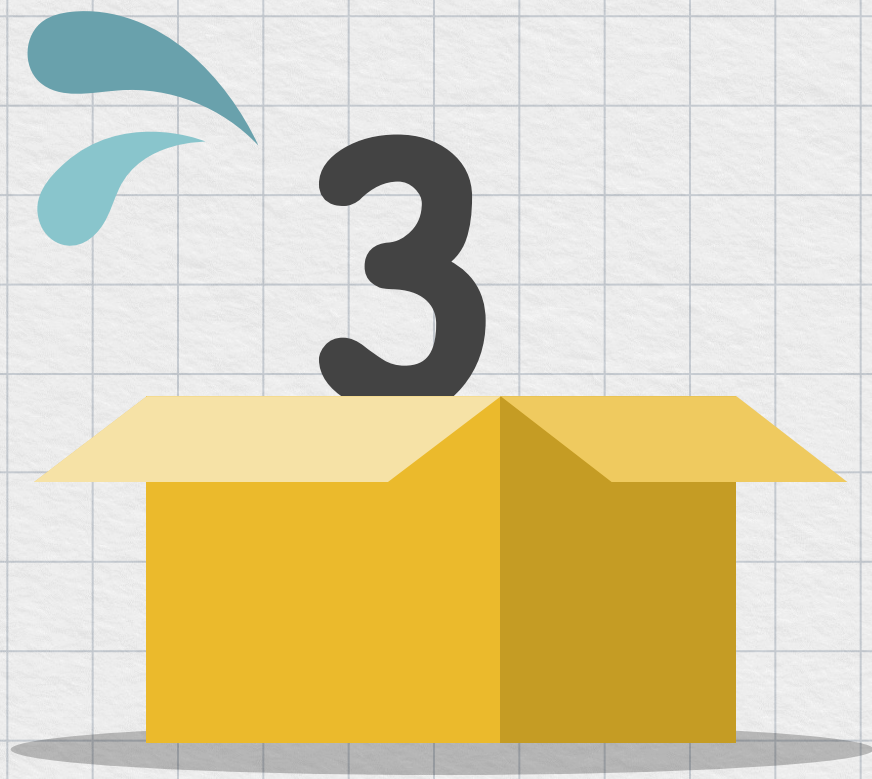
★ Tyler Lane- O'Reilly Software Developer





Micro:bits and Cute bots

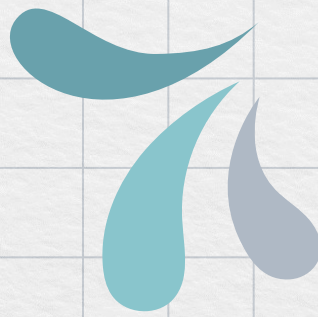
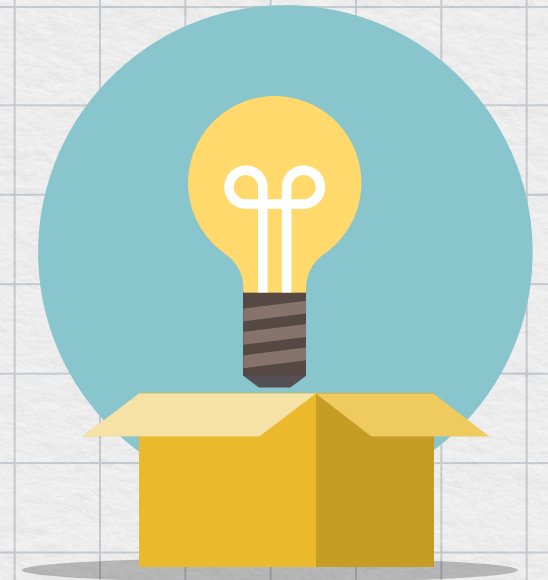
- Holiday Idiom Parade



Idiom Parade

Writing: Students will learn about common idioms and their meanings. They will present their findings through a visual representation and idiom parade.

Science/Coding: Students will complete the “Line Tracking” Lesson



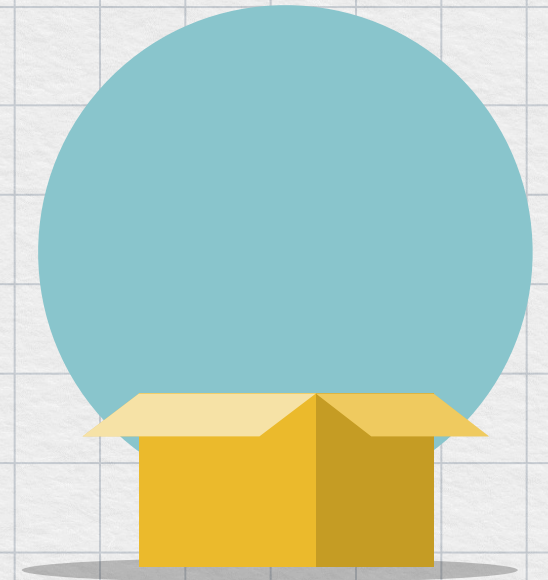
Holiday Idiom Parade with Cure Bots

Objectives:

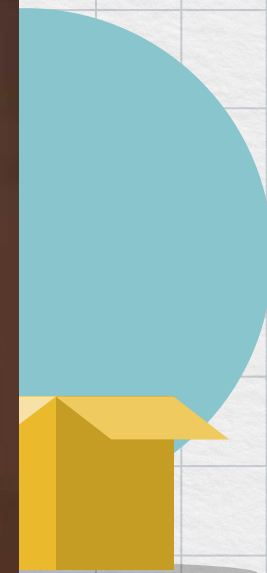
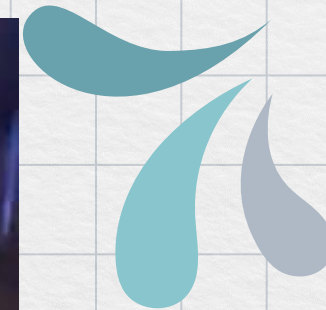
- ★ Students will understand the meaning of idioms.
- ★ Students will identify and explain various Holiday-related idioms.
- ★ Students will create visual representations of idioms using cute bots.

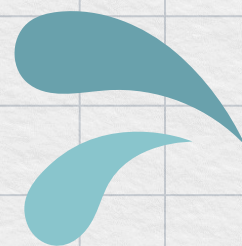
Students will display their understanding of idioms through the use of a visual display. They will have their cute bots drive around a “route” set up by the teacher. As they observe the “parade” they will learn new idioms related to the Holiday season.

[Holiday Idiom Parade with Cute Bot Lesson](#)

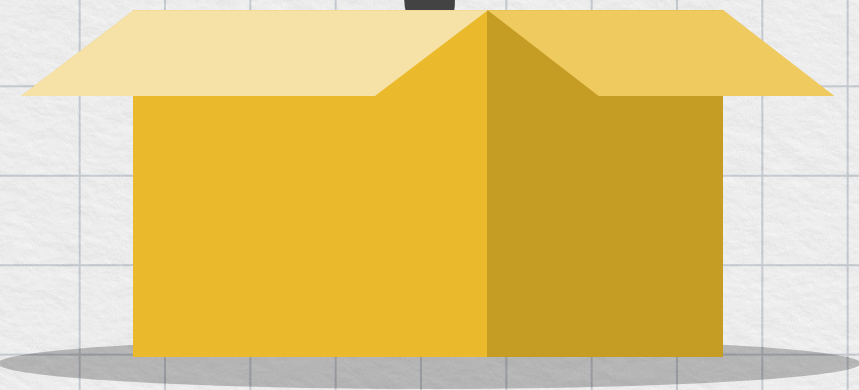


Take a Look!





4

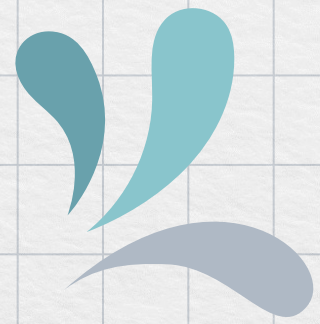


Extra, Extra, Learn All About

It!

Tools from our teacher toolbox

Did you know?



A man's best friend... I mean a teacher's best friend.....

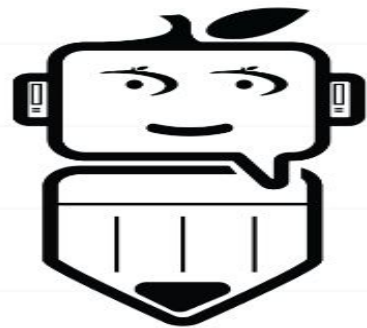
Tilliey brought to you by MSTa

<http://msta.org/tillie>

AI in the classroom!

Magic School

<https://app.magicschool.ai/tools>

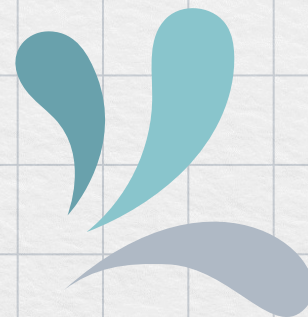


Meet
Tillie

MSTA An AI assistant for Missouri educators by the MISSOURI STATE TEACHERS ASSOCIATION

**MAGIC
SCHOOL**

Magic School Tools



Search Tools

MagicSchool

MagicStudent

Magic Tools

Raina (Chatbot)

Output History

Launch to Students

Love

Training

Share the Magic

MagicStudent Intro

Upgrade

Free

Favorites [Change Order](#)



E-mail Responder

Generate a customized professional e-mail communication in response to an...



E-mail Family

Generate a professional e-mail communication to families and translate...



Professional Email

Generate a professional e-mail communication to colleagues and other...



Behavior Intervention Suggestions

Generate a list of suggestions for behavior intervention based on the...



Sentence Starters

Provide sentence starters for any topic, assignment, standard, or objective.



Recommended For You ⓘ



Rubric Generator

Have AI write a rubric for an assignment you are creating for your class in a table...



Writing Feedback

Based on a custom criteria, have AI give areas of strength & areas for growth on...



Text Dependent Questions

Generate text-dependent questions for students based on any text that you input.



AI-Resistant Assignments

Receive suggestions on making assignments more challenging for AI...



Exemplar & Non-Exemplar

Have AI write exemplar & non-exemplar responses to specific assignments to h...



Get More Recommendations



TEACHERS ARE
MAGIC



Thank you!