

ROBOTS AND READ ALOUDS

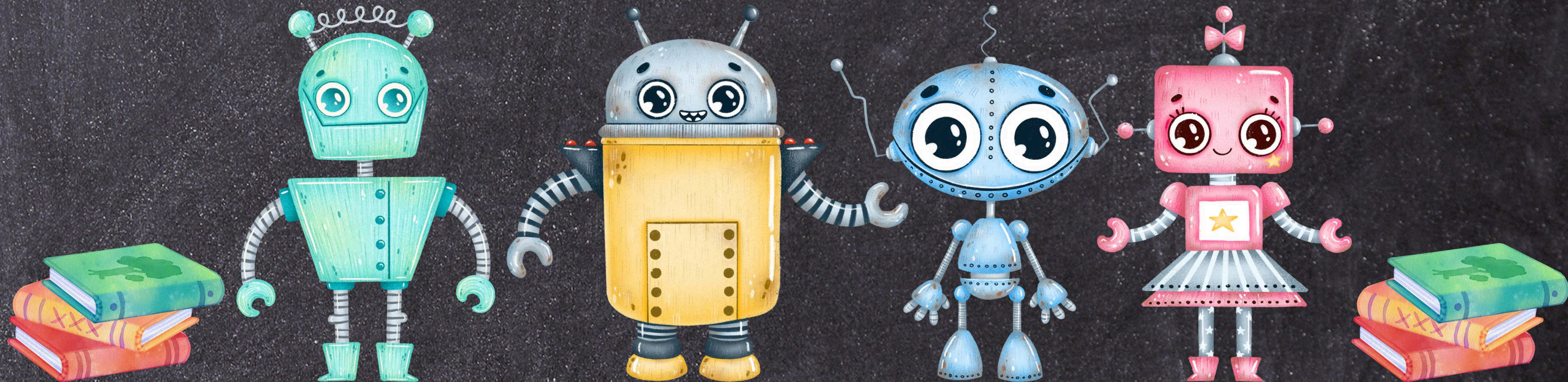
PRESENTED BY: MELANIE SOWA-LI

TECHNOLOGY TEACHER

COX INTERMEDIATE

CONROE ISD

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ABOUT ME

10TH YEARS IN EDUCATION

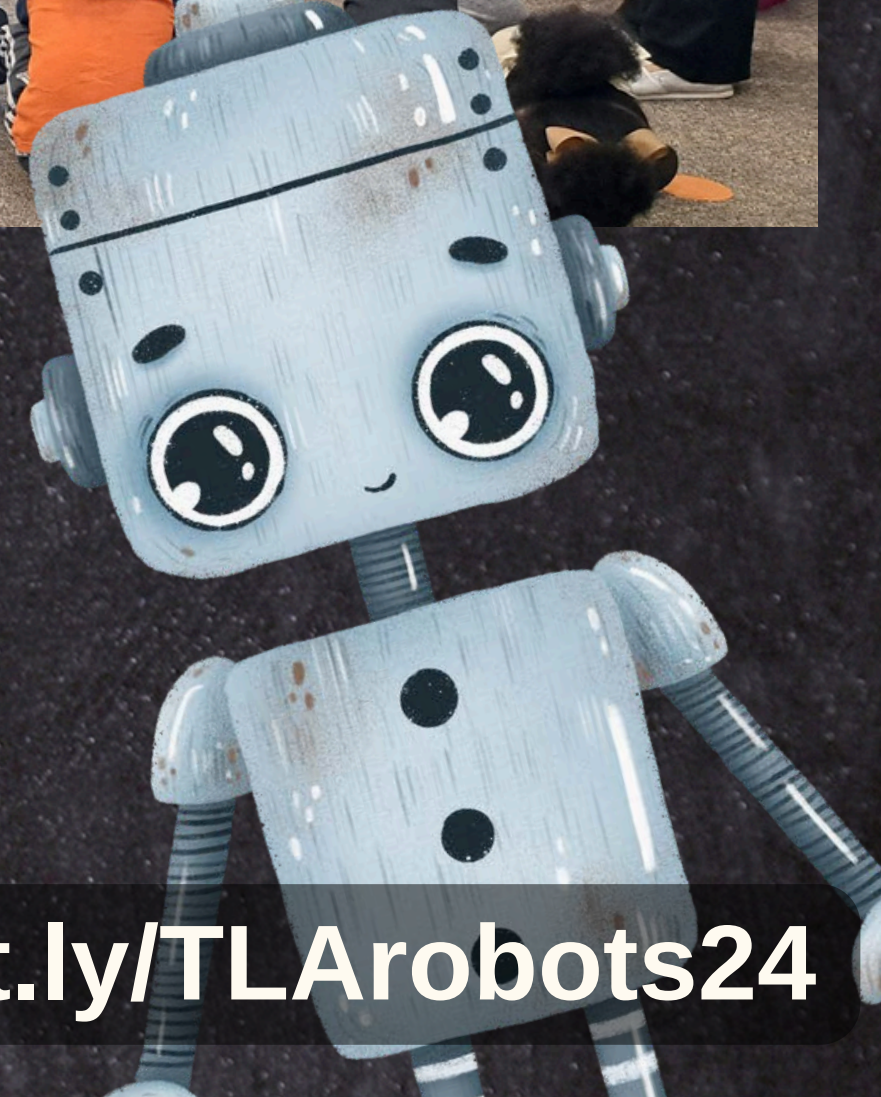
- 4TH GRADE
- 5TH GRADE
- LIBRARY MEDIA SPECIALIST
- TECHNOLOGY TEACHER

PASSION

- HARNESSING EMERGING TECHNOLOGIES TO SPARK CURIOSITY, INTERDISCIPLINARY INQUIRY, AND A LIFE LONG LOVE OF LEARNING



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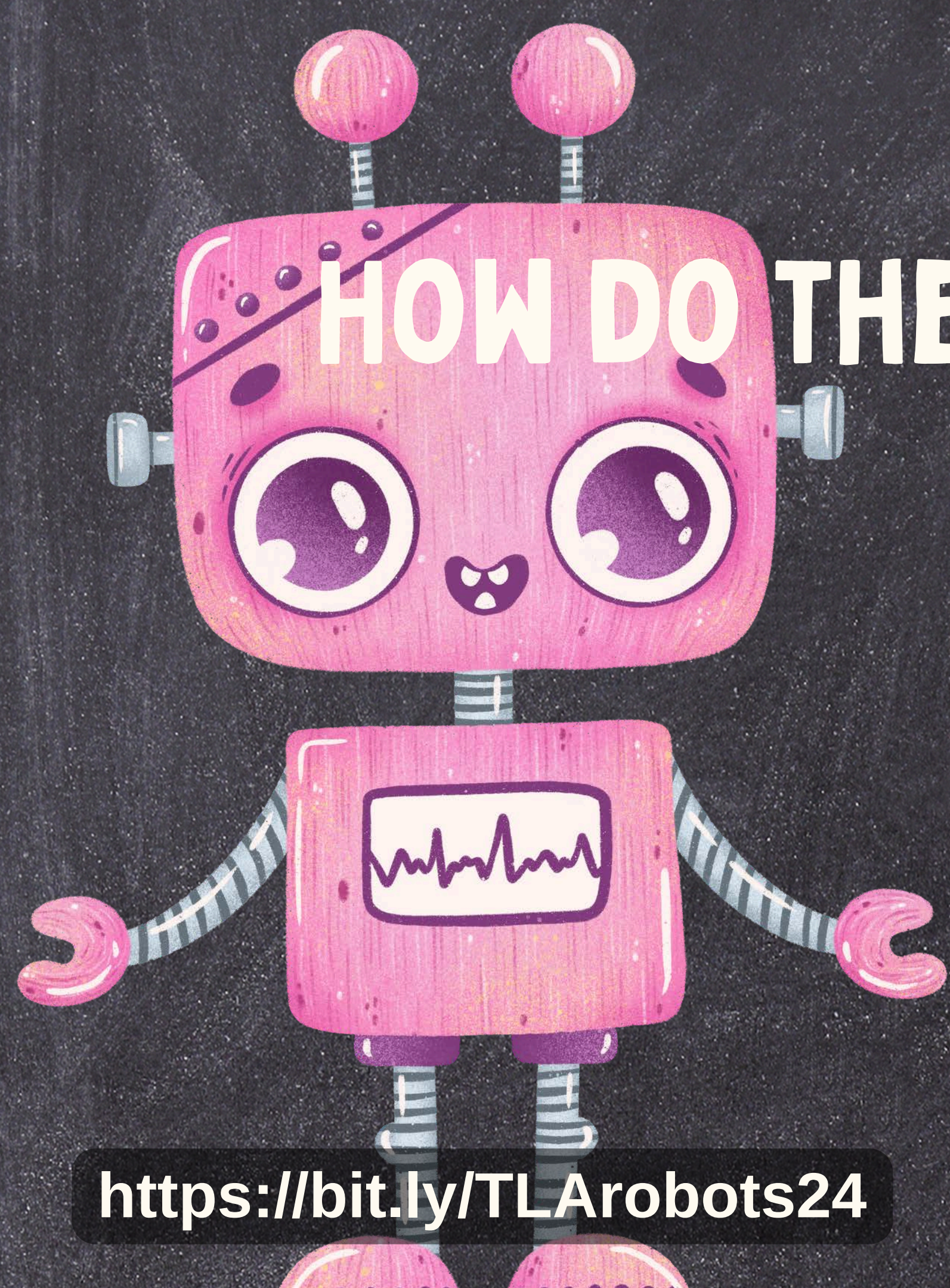


WHY ROBOTS?

HOW DO THEY RELATE TO READING?

- SEQUENCING
- CAUSE AND EFFECT
- CHARACTERIZATION
- SETTING
- DRAMA
- CREATIVE WRITING/STORYTELLING

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BUT WHY ROBOTS?



EMPATHY



PROBLEM SOLVING



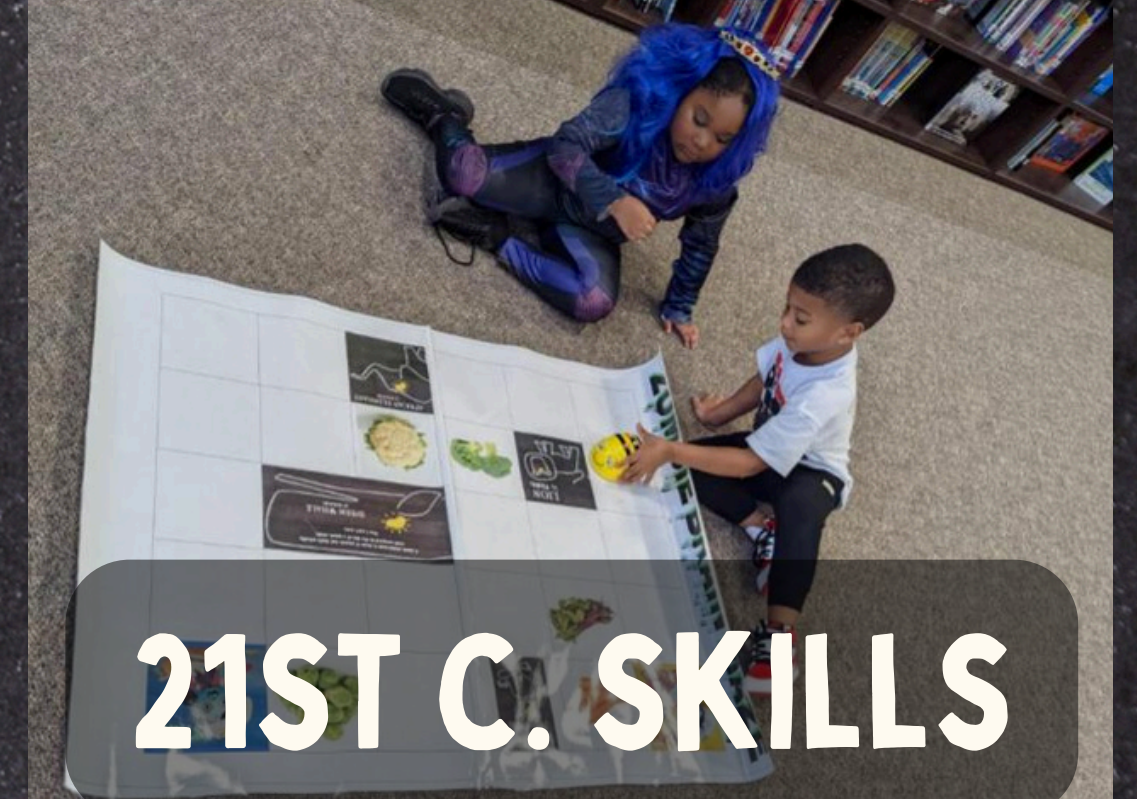
ENGAGEMENT



COLLABORATION

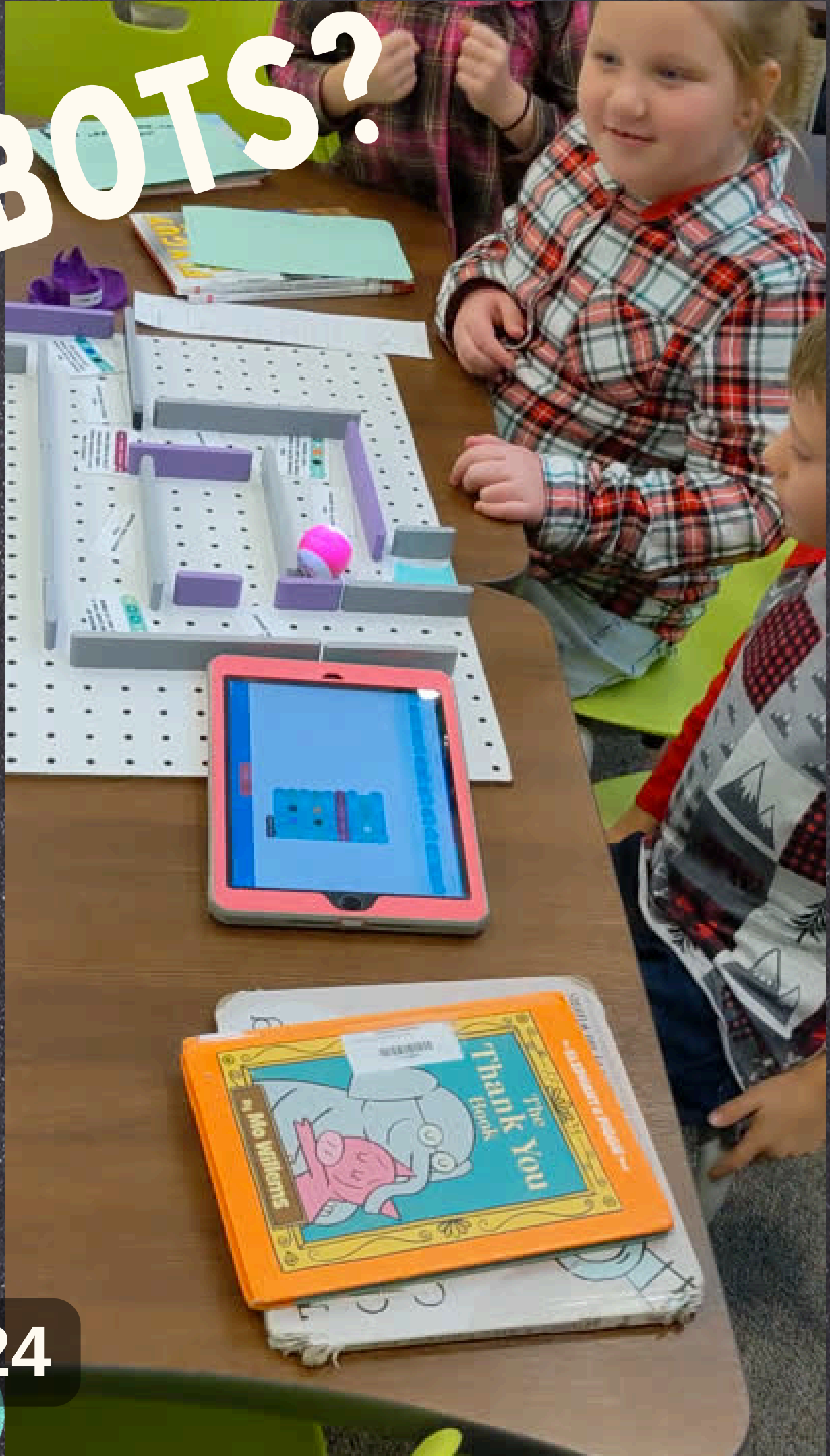
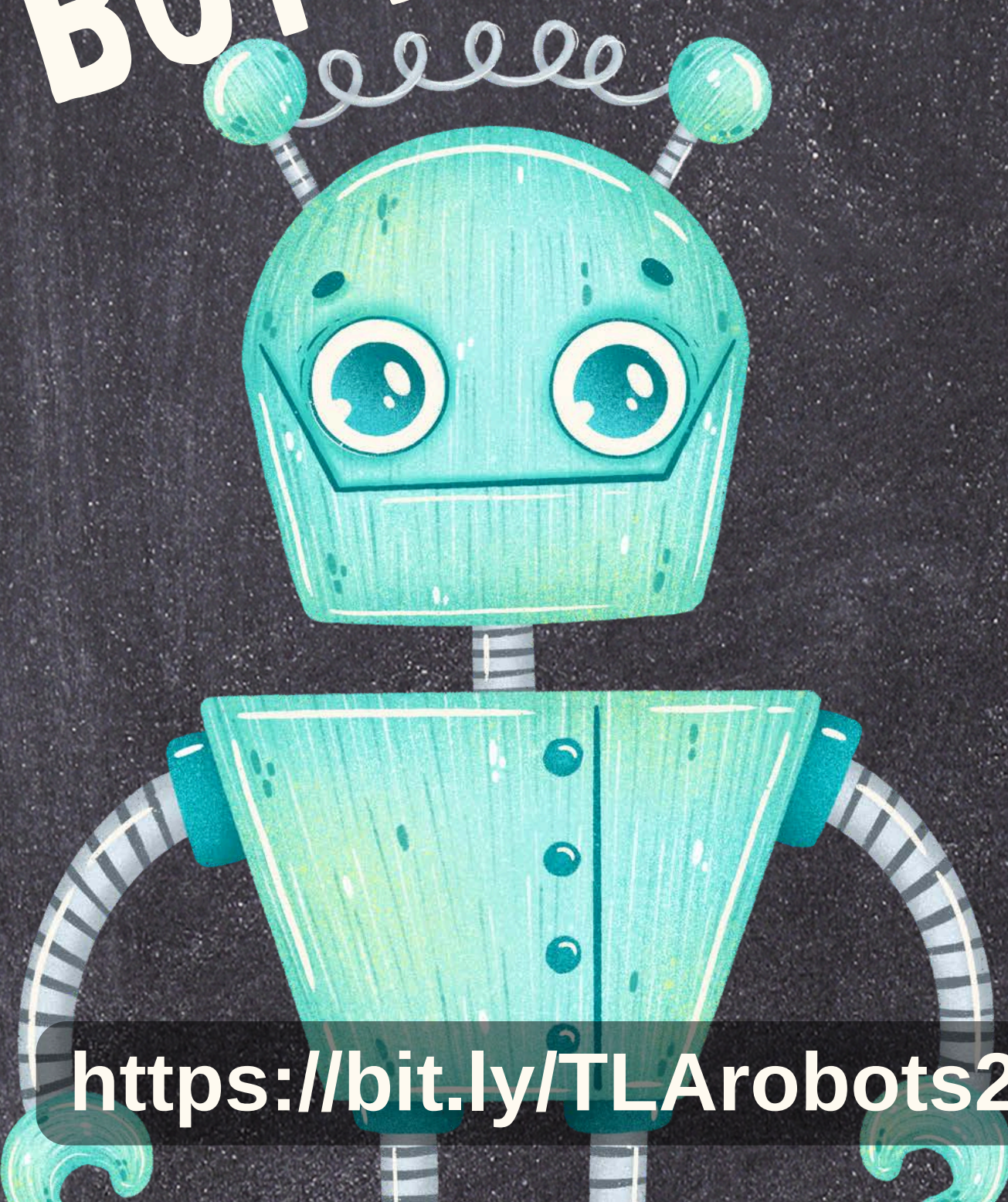


CRITICAL THINKING



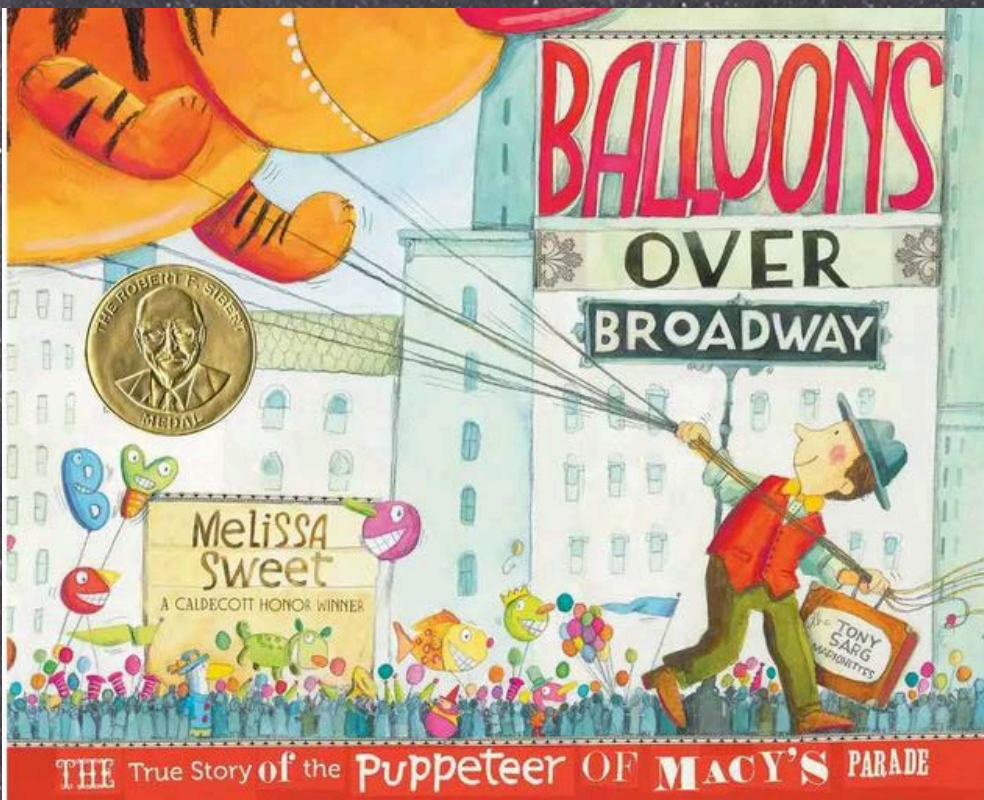
21ST C. SKILLS

BUT WHY ROBOTS?



**ROBOT:
SPHERO MINI**

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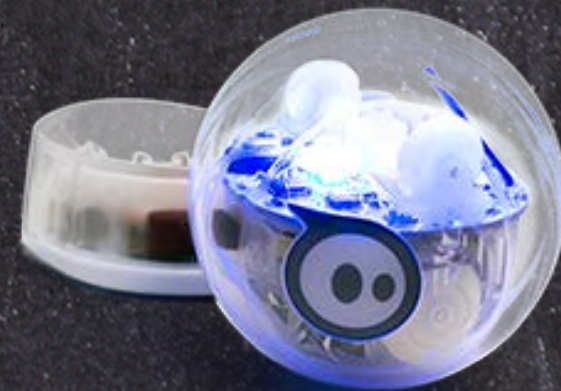
EXAMPLE: BALLOONS OVER BROADWAY



BOTLEY

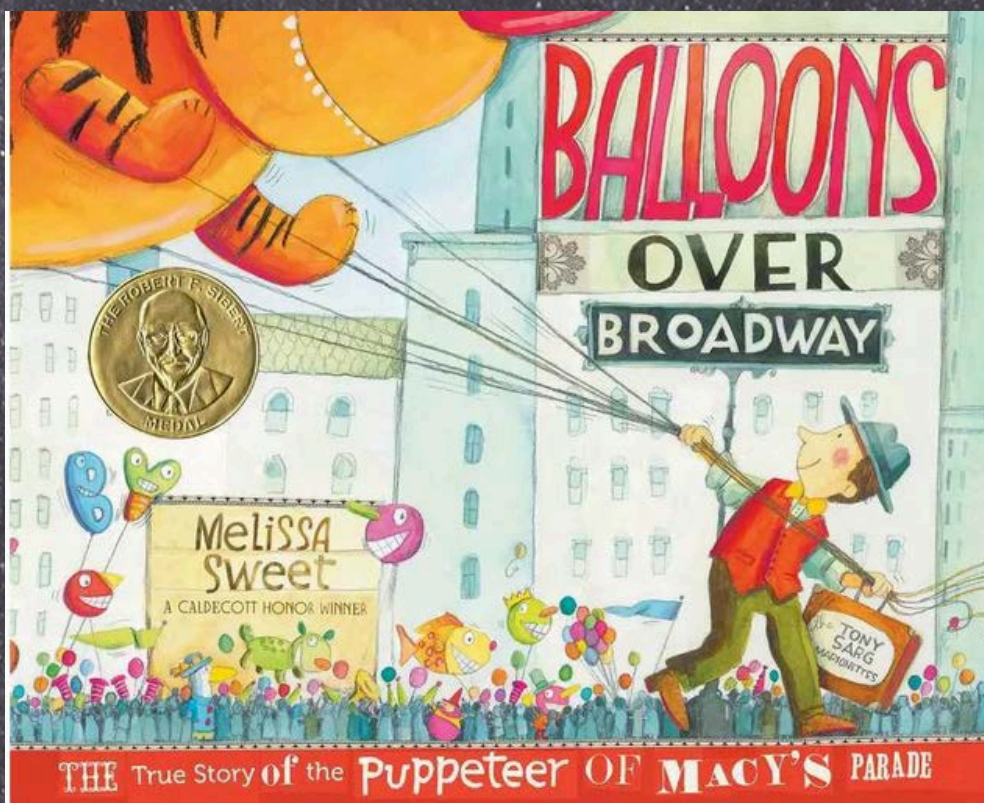


ROOT



**SPHERO
SPARK+ / BOLT**

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EXAMPLE: BALLOONS OVER BROADWAY

RELA TEKS

- **INFORMATIONAL TEXTS: AUTHOR'S PURPOSE, CENTRAL IDEAS AND SUPPORTING DETAILS**
- **COMPREHENSION: PERSONAL CONNECTIONS, MAKE INFERENCES, & SYNTHESIZE INFORMATION**
- **READING PROCESS: MAKE MENTAL PICTURES & GENERATE QUESTIONS**

SOCIAL STUDIES TEKS

- **DESCRIBE THE ORIGINS OF CUSTOMS, HOLIDAYS, AND CELEBRATIONS**

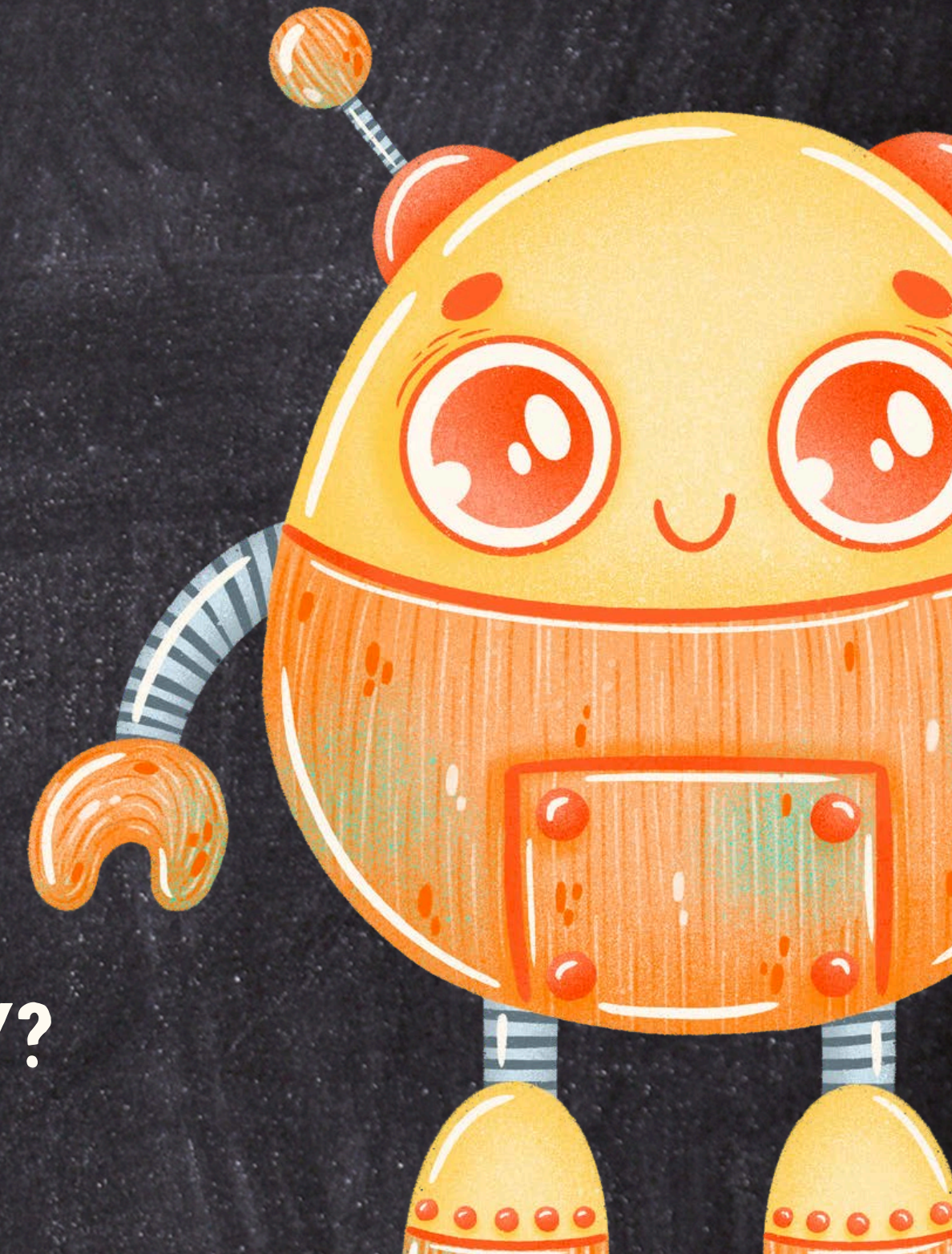
SCIENCE TEKS

- **DEMONSTRATE AND RECORD WAYS OBJECTS CAN MOVE**
- **IDENTIFY AND EXPLAIN A PROBLEM AND PROPOSE A SOLUTION**
- **MAKE PREDICTIONS BASED ON OBSERVABLE PATTERNS**

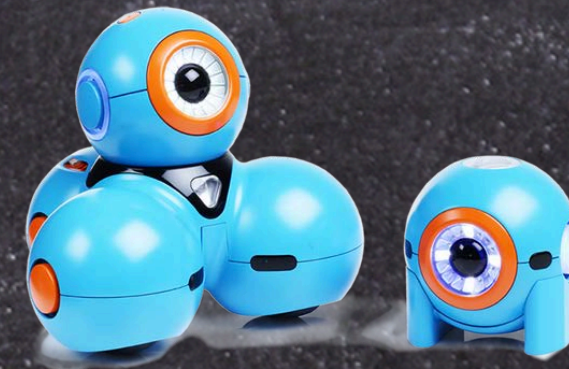
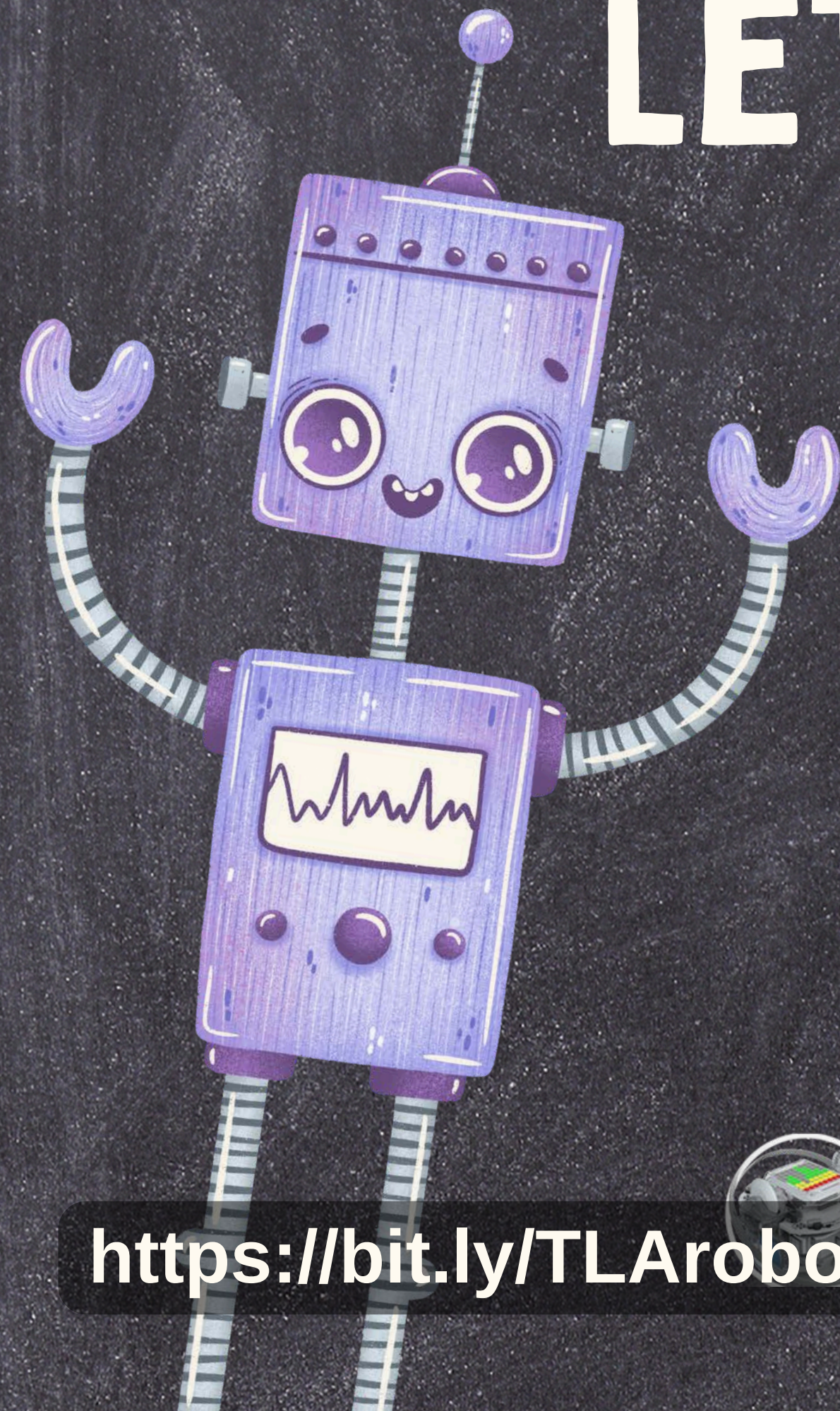


HOW TO PLAN

- **DECIDE WHAT SKILL/CONCEPT ARE YOU GOING TO FOCUS ON FOR YOUR ACTIVITY?**
- **WHAT BOOK MAKES A GREAT MENTOR TEXT FOR THAT FOCUS?**
- **CAN ROBOTS HELP BRING THAT CONCEPT TO LIFE?**
- **IF SO, HOW? CHECK BRAND RESOURCES & DEVELOP A PLAN**
- **ARE THERE ANY SKILLS I NEED TO COVER BEFORE THE ACTIVITY?**
- **IS THERE ANY PREP I NEED TO DO BEFORE THE ACTIVITY?**



LET'S GO THROUGH THE PREPPING PROCESS



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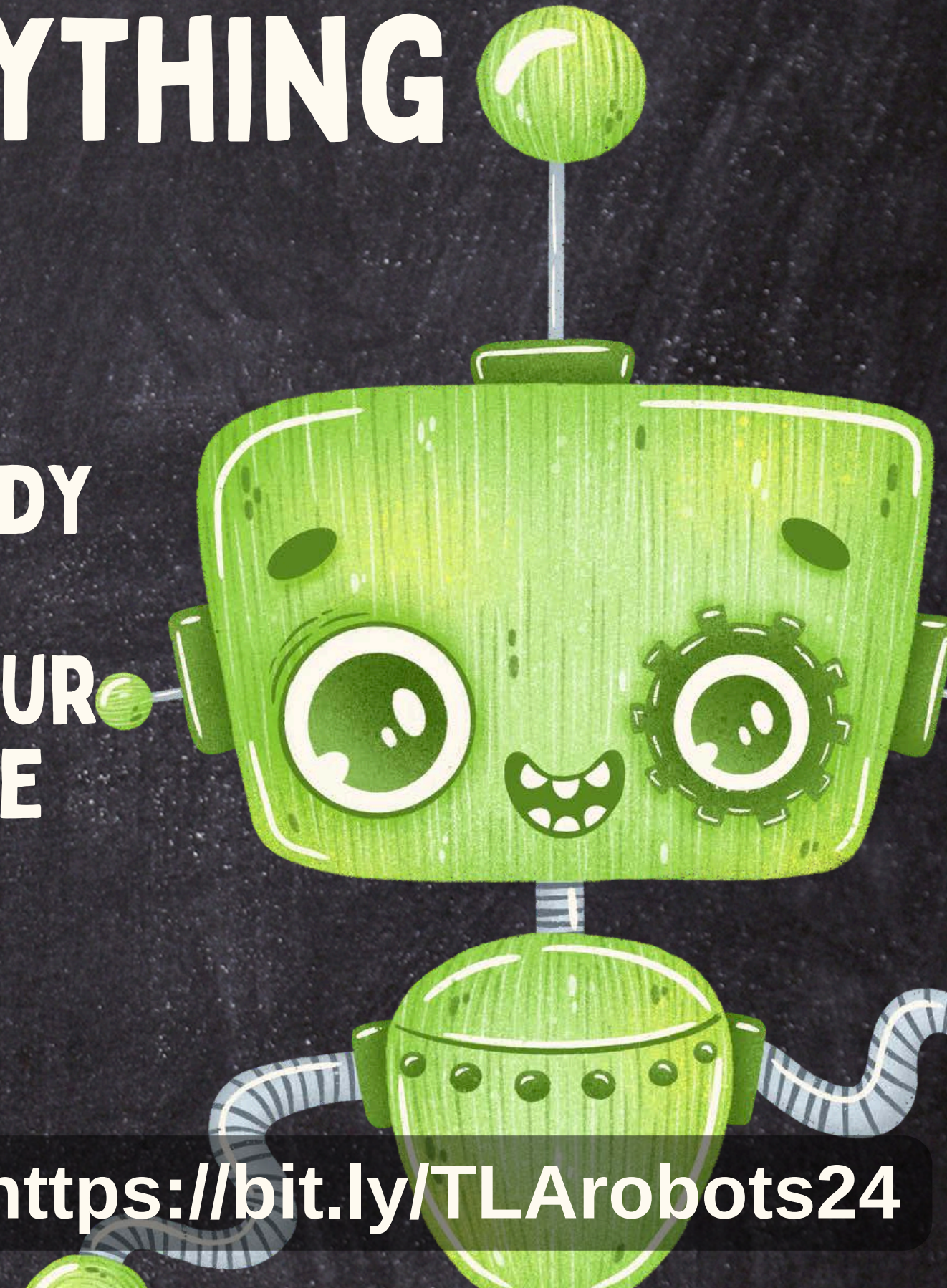
THE LITTLE OLD LADY WHO WAS NOT AFRAID OF ANYTHING

FOCUS: SEQUENCING

ACTIVITY: YOU NEED TO HELP THE LITTLE OLD LADY GET THROUGH THE WOODS. USE THE PLANNING SHEET TO DECIDE YOUR COURSE THEN CODE YOUR ROBOT TO MEET EACH OF THE OBJECTS THAT SHE MET IN THE ORDER SHE MET THEM.

PREP: DESIGN/PRINT CODING MATS, PRINT PLANNING SHEET, CHARGE DEVICES

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INCREDIBLE INTERGALACTIC JOURNEY HOME



FOCUS: SEQUENCING

ACTIVITY: YOU NEED TO GET HOME. DESIGN YOUR SPACE SHIP USING THE LEGOS AND THEN CODE YOUR SHIP TO MEET THE SAME FRIENDS AS HUBBLE AND RORY ON YOUR TRIP HOME.

PREP: DESIGN/PRINT CODING MATS OR CREATE MAZE, PRINT PLANNING SHEET, LEGOS (FOR ROOT ROBOT), CHARGE DEVICES



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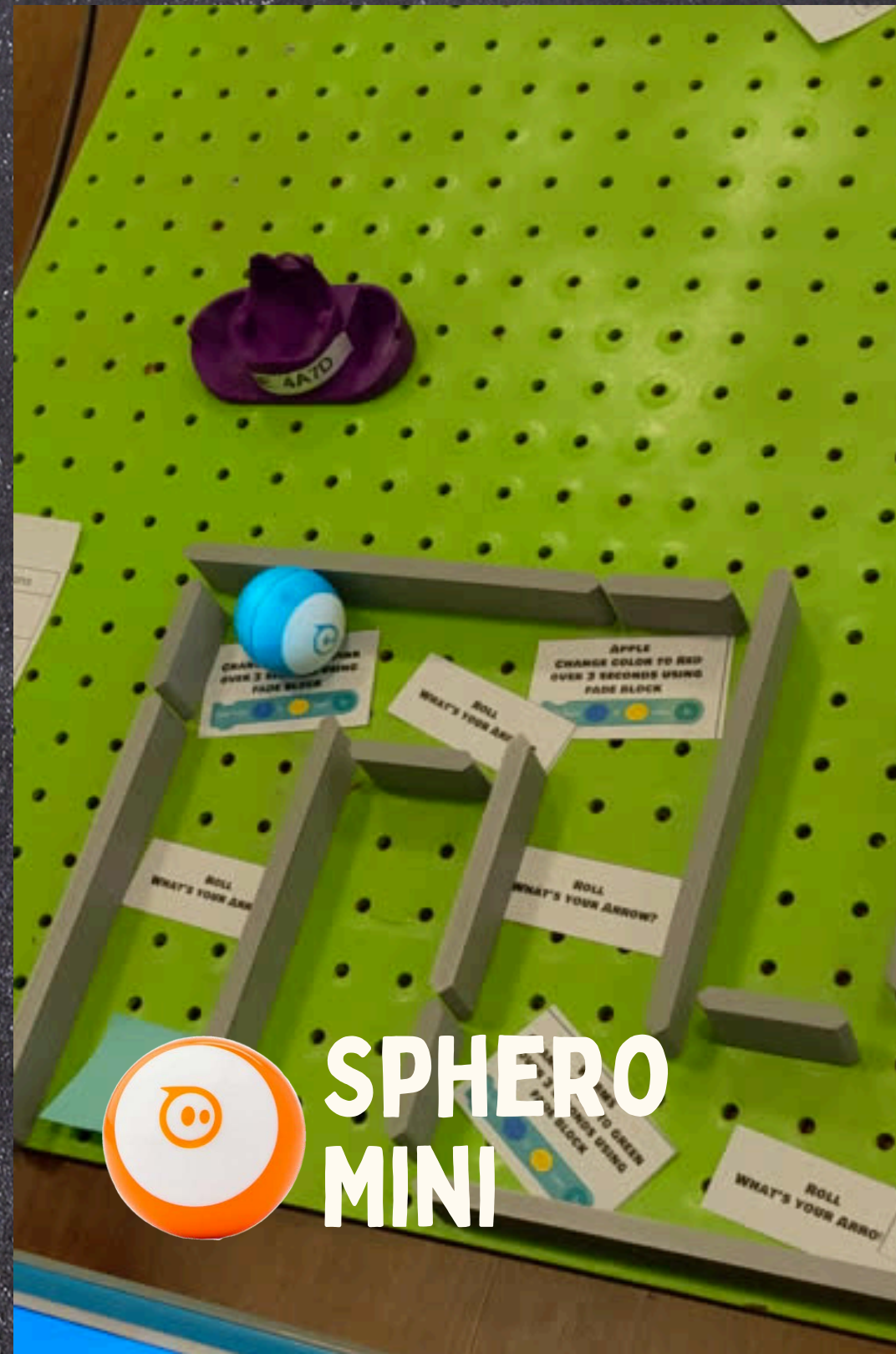
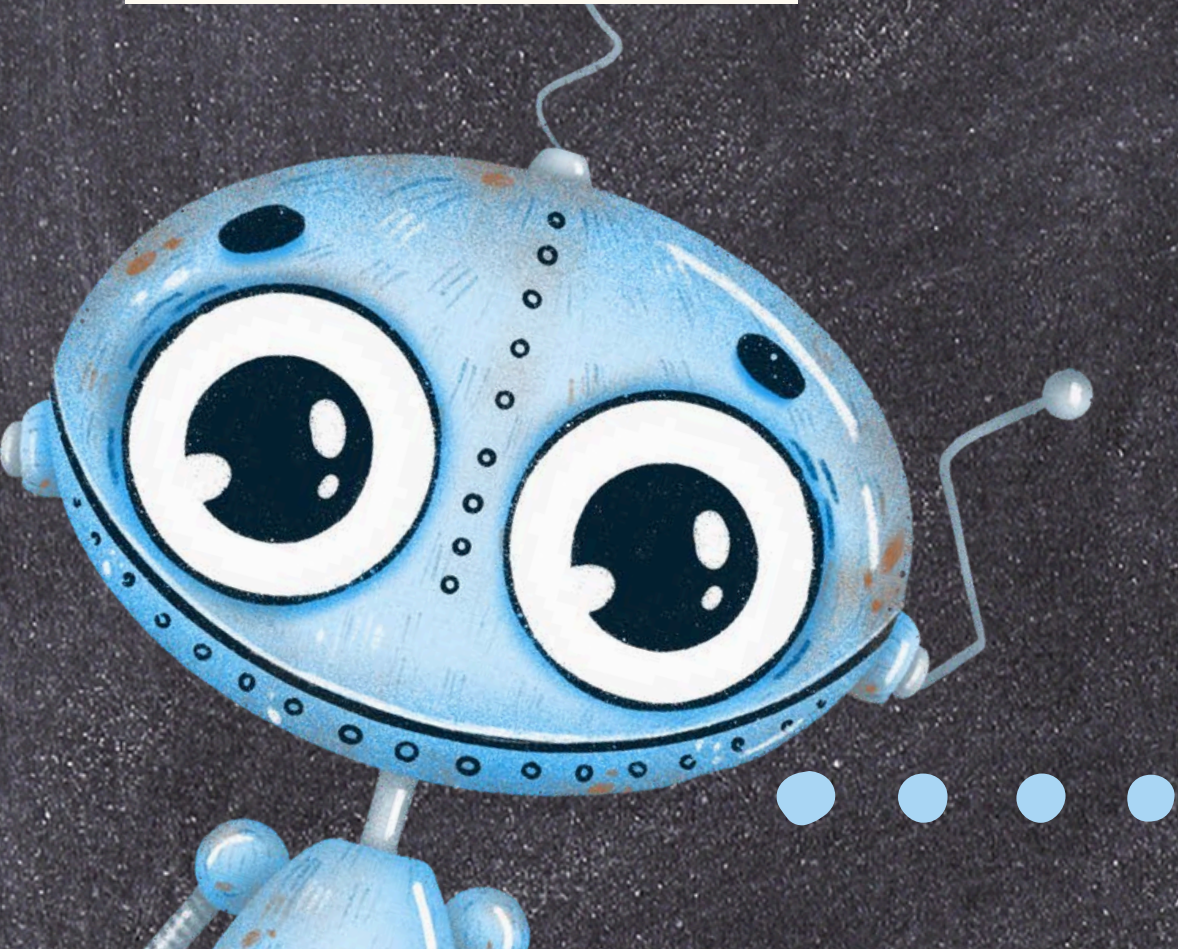
INCREDIBLE INTERGALACTIC JOURNEY HOME



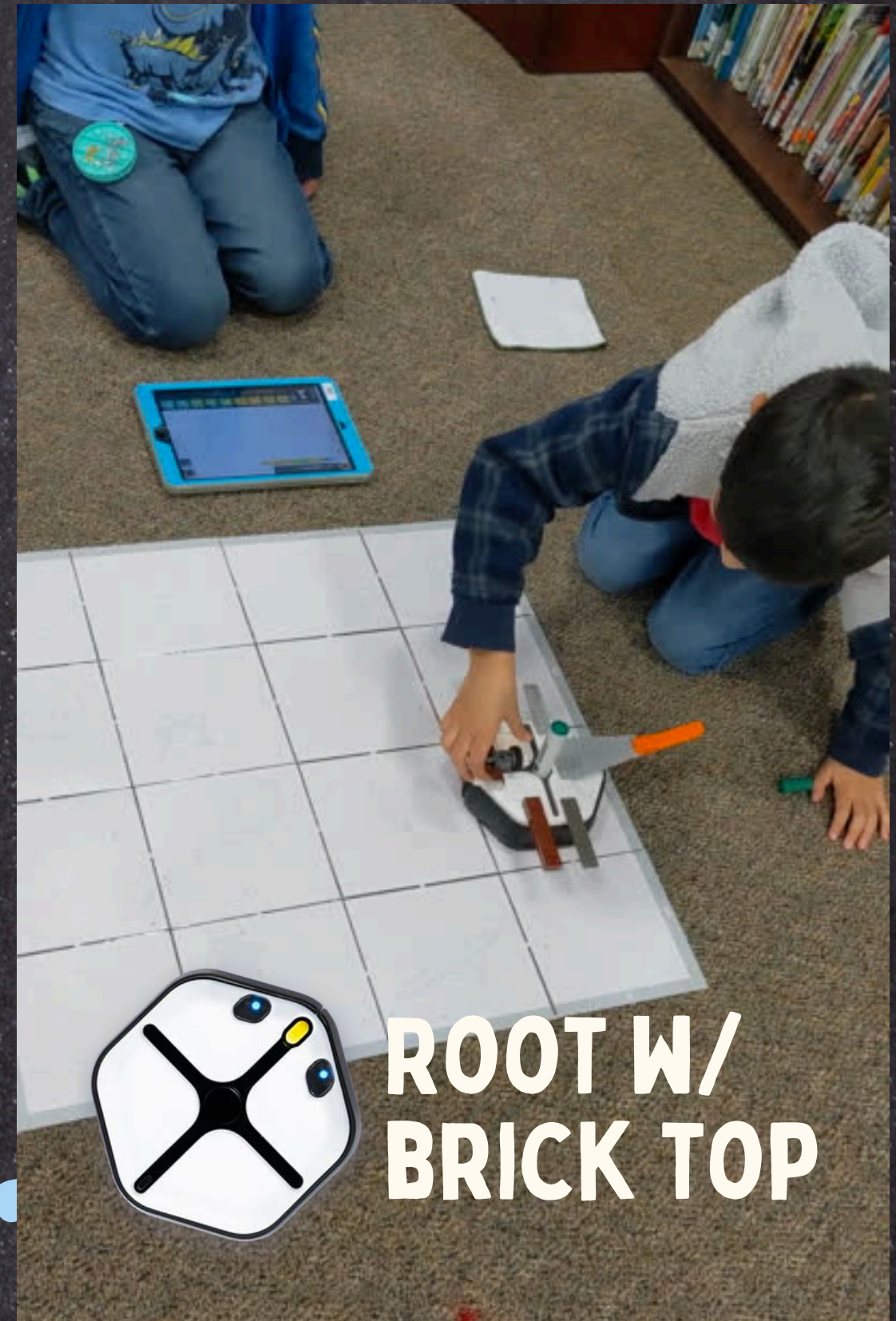
PEG BOARD WALLS

BEAR SNORES ON CODING BLOCKS

WHAT ABOUT WORMS CODING BLOCKS



SPHERO
MINI



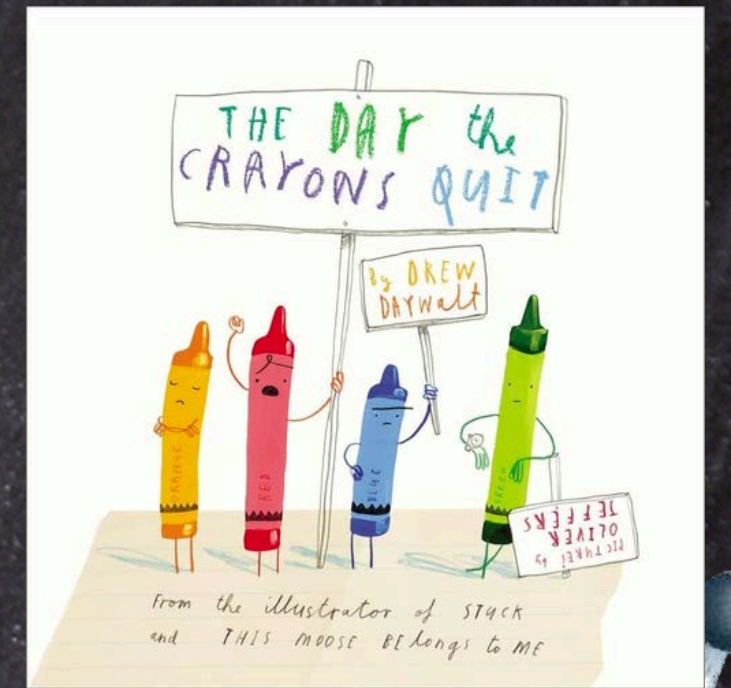
ROOT W/
BRICK TOP

THE DAY THE CRAYONS QUIT

FOCUS: CHARACTERIZATION

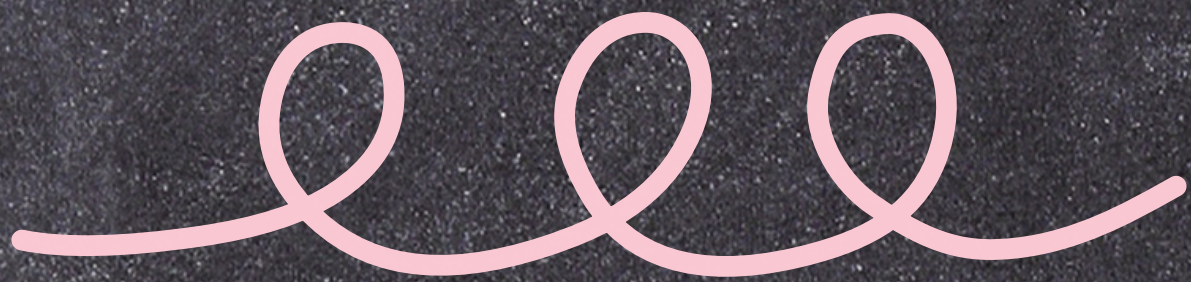
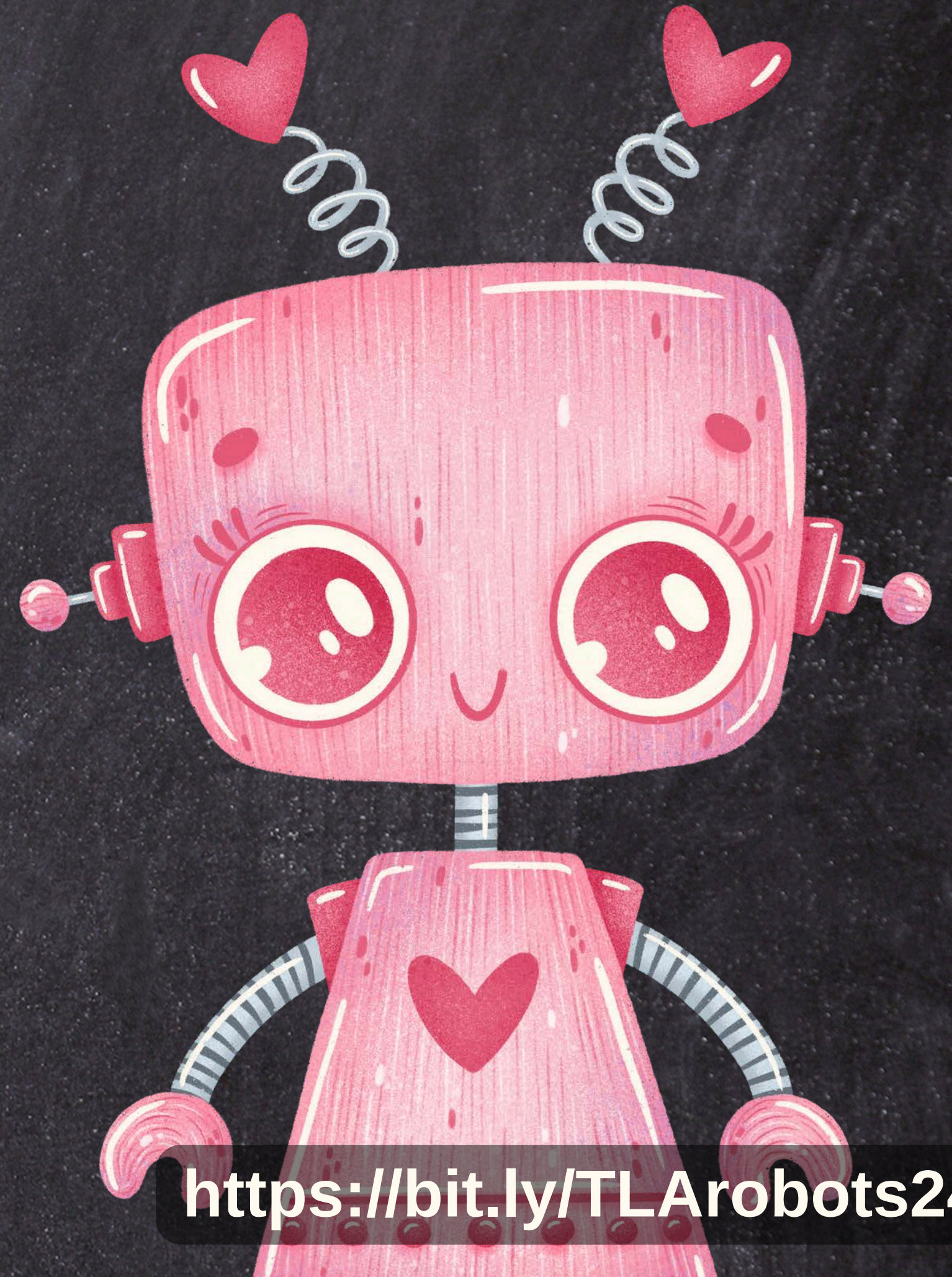
ACTIVITY: CHOOSE ONE OF THE CRAYONS AND WRITE OUT 5 WORDS THAT DESCRIBE THEIR CHARACTER. USE THOSE DESCRIPTIONS TO DRESS UP THE ROBOT AS THAT CRAYON

PREP: PAPER FOR CHARACTER NOTES, DIFFERENT COLOR CONSTRUCTION PAPER/CUPS, GLUE/TAPE, MARKERS, VARIOUS CRAFT SUPPLIES



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ADDITIONAL RESOURCES



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THANK YOU FOR COMING!

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PLEASE REACH OUT WITH QUESTIONS AND FOR
COLLABORATION!

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