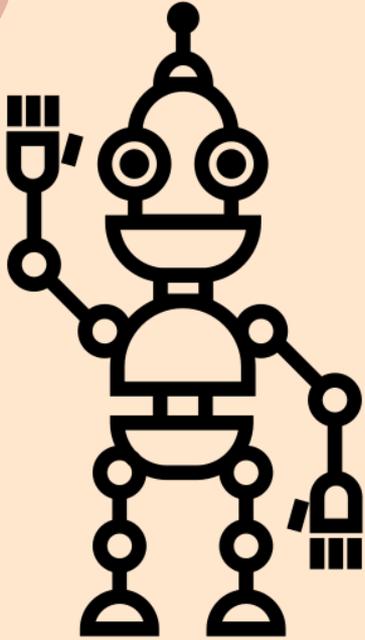


K-5/1st Grade



ALGORITHMS: FIRST, NEXT, LAST

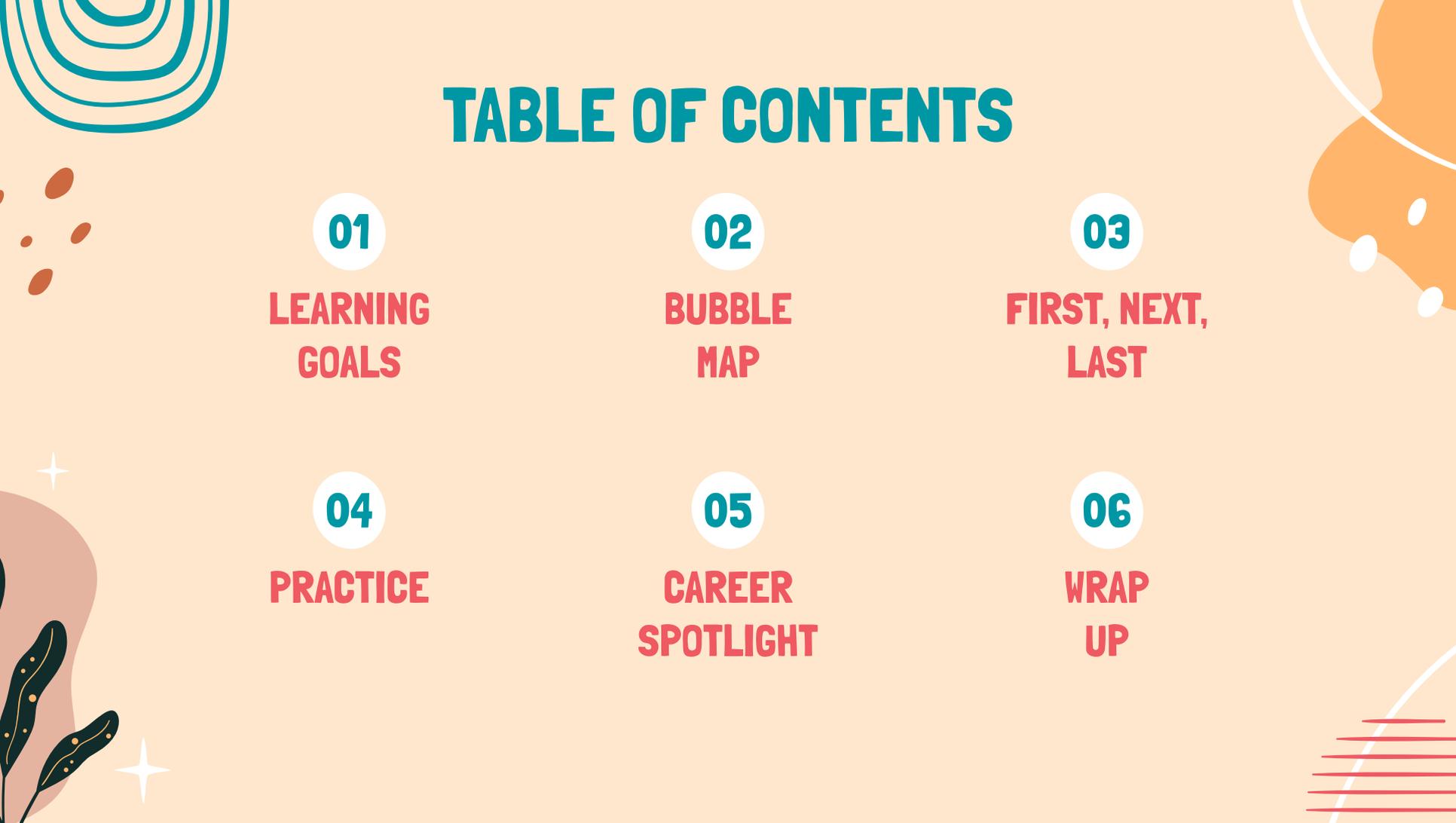


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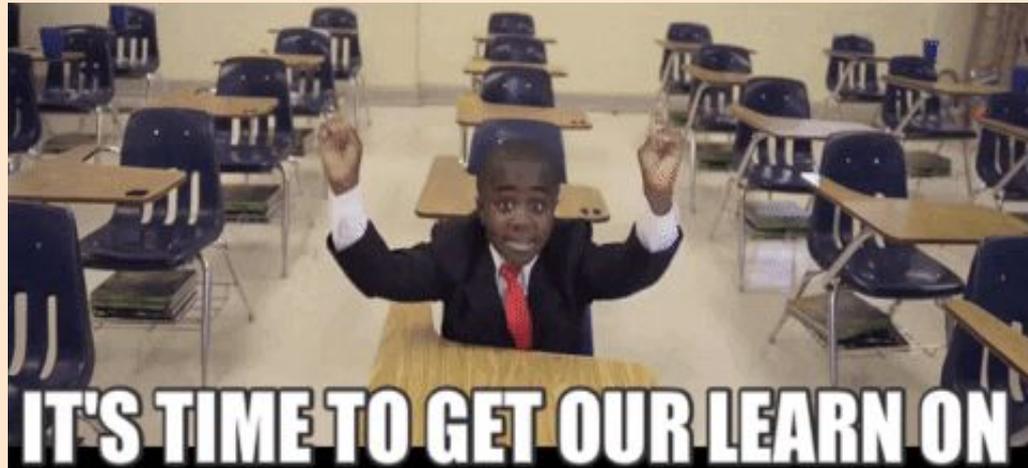
**CAREER
SPOTLIGHT**

06

**WRAP
UP**

LEARNING GOALS

- I can identify the beginning, middle, and end of a sequence of steps.
- I can arrange my routine into simple, easy-to-follow steps.



BUBBLE MAP



WHAT DO YOU DO
AFTER YOU WAKE UP?



DAILY ROUTINE SONG



WHAT IS A SEQUENCE?

SEQUENCE =

THE **ORDER** OF **STEPS**
YOU DO TO COMPLETE A TASK

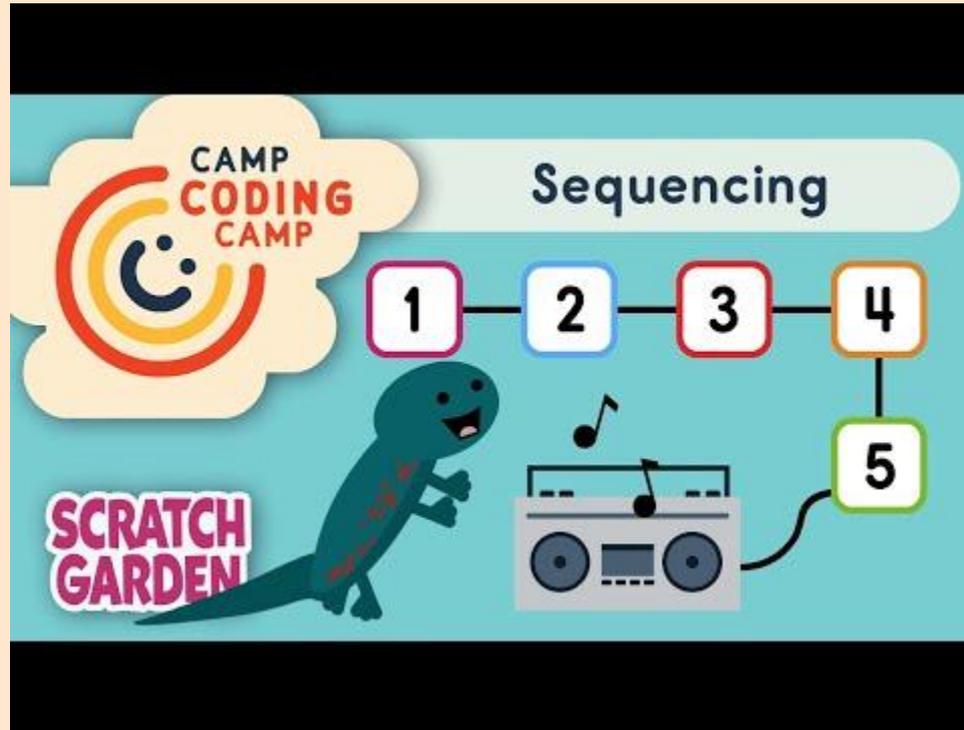
01

02

03

04

SEQUENCES!



CAMP CODING CAMP

Sequencing

1 — 2 — 3 — 4

5

SCRATCH GARDEN

The graphic features a teal background with a white cloud-like shape on the left containing the 'CAMP CODING CAMP' logo. Below the logo is the 'SCRATCH GARDEN' logo and a cartoon green dinosaur. In the center, a grey boombox with two speakers and a cassette slot is shown with a black cord extending to the right. Above the boombox, a sequence of five numbered boxes is connected by lines: box 1 (pink border) is connected to box 2 (blue border), which is connected to box 3 (red border), which is connected to box 4 (orange border). From box 4, a vertical line connects to box 5 (green border) positioned below it. A musical note icon is positioned above the boombox.

STEP 1: FIRST AND LAST

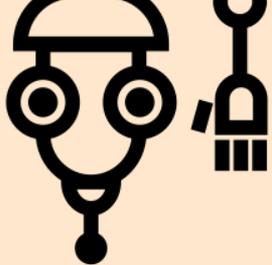
One thing has to come **first** and another thing has to come **last**.



FIRST



LAST



STEP 1: FIRST AND LAST

What happens **first**?



BRUSHING YOUR TEETH



**GETTING YOUR TOOTHBRUSH
AND TOOTHPASTE**

STEP 1: FIRST AND LAST

Getting your toothbrush and toothpaste comes **first** and brushing your teeth comes **last**.



FIRST



LAST

STEP 2: FIRST, NEXT, LAST

One thing has to come **first**, then something comes **next**, and another thing has to come **last**.



FIRST



NEXT



LAST

STEP 2: FIRST, NEXT, LAST



**FIRST: GET YOUR
TOOTHBRUSH
AND TOOTHPASTE**



**NEXT: PUT TOOTHPASTE ON
YOUR TOOTHBRUSH**



LAST: BRUSH YOUR TEETH

STEP 3: ORDER 3 STEPS

What happens **first**?



**PUTTING TOOTHPASTE ON
YOUR TOOTHBRUSH**



BRUSHING YOUR TEETH



**GETTING YOUR
TOOTHBRUSH
AND TOOTHPASTE**



STEP 3: ORDER 3 STEPS

Right! Getting your toothbrush and toothpaste comes **first!**



FIRST

STEP 3: ORDER 3 STEPS

What happens **next**?



FIRST



BRUSHING YOUR TEETH



**PUTTING TOOTHPASTE ON
YOUR TOOTHBRUSH**

STEP 3: ORDER 3 STEPS

Right! Putting toothpaste on your toothbrush comes **next**!



FIRST



NEXT



STEP 3: ORDER 3 STEPS

What happens **last**?



FIRST



NEXT



BRUSHING YOUR TEETH

STEP 3: ORDER 3 STEPS

Right! **Brushing your teeth** comes **last**.



FIRST



NEXT



LAST

STEP 3: ORDER 3 STEPS

So, the steps for brushing your teeth are...



**FIRST: GET YOUR
TOOTHBRUSH
AND TOOTHPASTE**



**NEXT: PUT TOOTHPASTE ON
YOUR TOOTHBRUSH**



LAST: BRUSH YOUR TEETH



STEP 4: RETELL THE EVENT

**WHAT ARE ALL OF THE
STEPS TO BRUSHING
YOUR TEETH?**





STEPS TO BRUSH YOUR TEETH

FIRST, I _____.



BRUSH MY TEETH

**GET MY
TOOTHBRUSH
AND TOOTHPASTE**

**PUT TOOTHPASTE
ON MY
TOOTHBRUSH**



STEPS TO BRUSH YOUR TEETH

FIRST, I

**GET MY
TOOTHBRUSH
AND TOOTHPASTE .**

BRUSH MY TEETH

**GET MY
TOOTHBRUSH
AND TOOTHPASTE**

**PUT TOOTHPASTE
ON MY
TOOTHBRUSH**

STEPS TO BRUSH YOUR TEETH

NEXT, I _____.

BRUSH MY TEETH

GET MY
TOOTHBRUSH
AND TOOTHPASTE

PUT TOOTHPASTE
ON MY
TOOTHBRUSH

STEPS TO BRUSH YOUR TEETH

NEXT, I

**PUT TOOTHPASTE
ON MY
TOOTHBRUSH**

BRUSH MY TEETH

**GET MY
TOOTHBRUSH
AND TOOTHPASTE**

**PUT TOOTHPASTE
ON MY
TOOTHBRUSH**

STEPS TO BRUSH YOUR TEETH

LAST, I _____.

BRUSH MY TEETH

GET MY
TOOTHBRUSH
AND TOOTHPASTE

PUT TOOTHPASTE
ON MY
TOOTHBRUSH

STEPS TO BRUSH YOUR TEETH

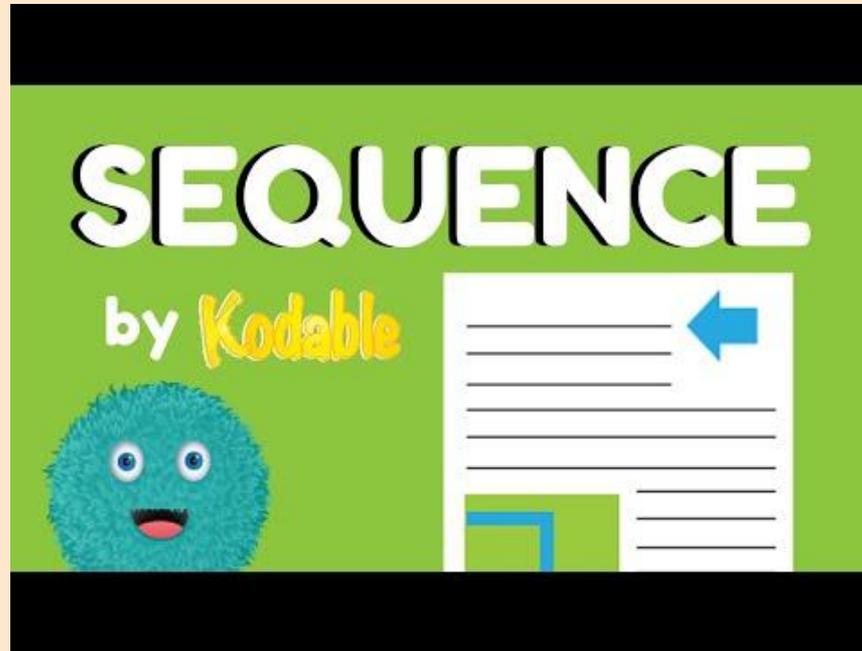
LAST, I BRUSH MY TEETH.

BRUSH MY TEETH

**GET MY
TOOTHBRUSH
AND TOOTHPASTE**

**PUT TOOTHPASTE
ON MY
TOOTHBRUSH**

SEQUENCING AND COMPUTERS!



LET'S CREATE OUR OWN ALGORITHM!

WHAT DO YOU DO IN THE MORNING?

You will have 5 minutes to make your own morning routine algorithm!

FIRST: Talk with your group about what you do in the morning and find out 3 things you all do.

- If you are stuck, use some of the examples written on the board!

NEXT: Determine the order of your 3 things:

- “What happens *first*?”
- “What happens *next*?”
- “What happens *last*?”

LAST: Figure out who is going to be the reporter/speaker of your group and wait for your group to be called to share your routine with the class.



LET'S CREATE OUR OWN ALGORITHM!

WHAT DO YOU DO IN THE MORNING?

You will have _ minutes to draw your own morning routine algorithm!

FIRST: Think back to what you did this morning. Choose 3 of these things you did.

- If you are stuck, use some of the examples written on the board!

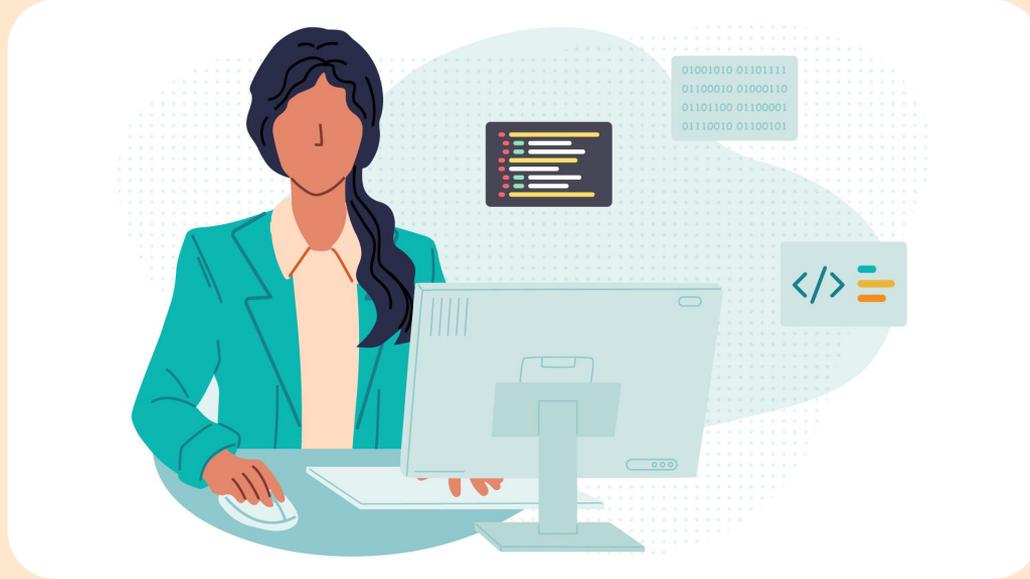
NEXT: Determine the order of your 3 things:

- “What happens *first*?”
- “What happens *next*?”
- “What happens *last*?”

LAST: Draw a picture of these things in order. You can draw yourself doing these steps, or you can draw a picture to describe your steps.



COMPUTER PROGRAMMER



A **computer programmer** is someone who writes instructions for a computer to follow.

ADA LOVELACE

the first computer programmer

She was the first person to write a program— instructions that tell a computer what to do.





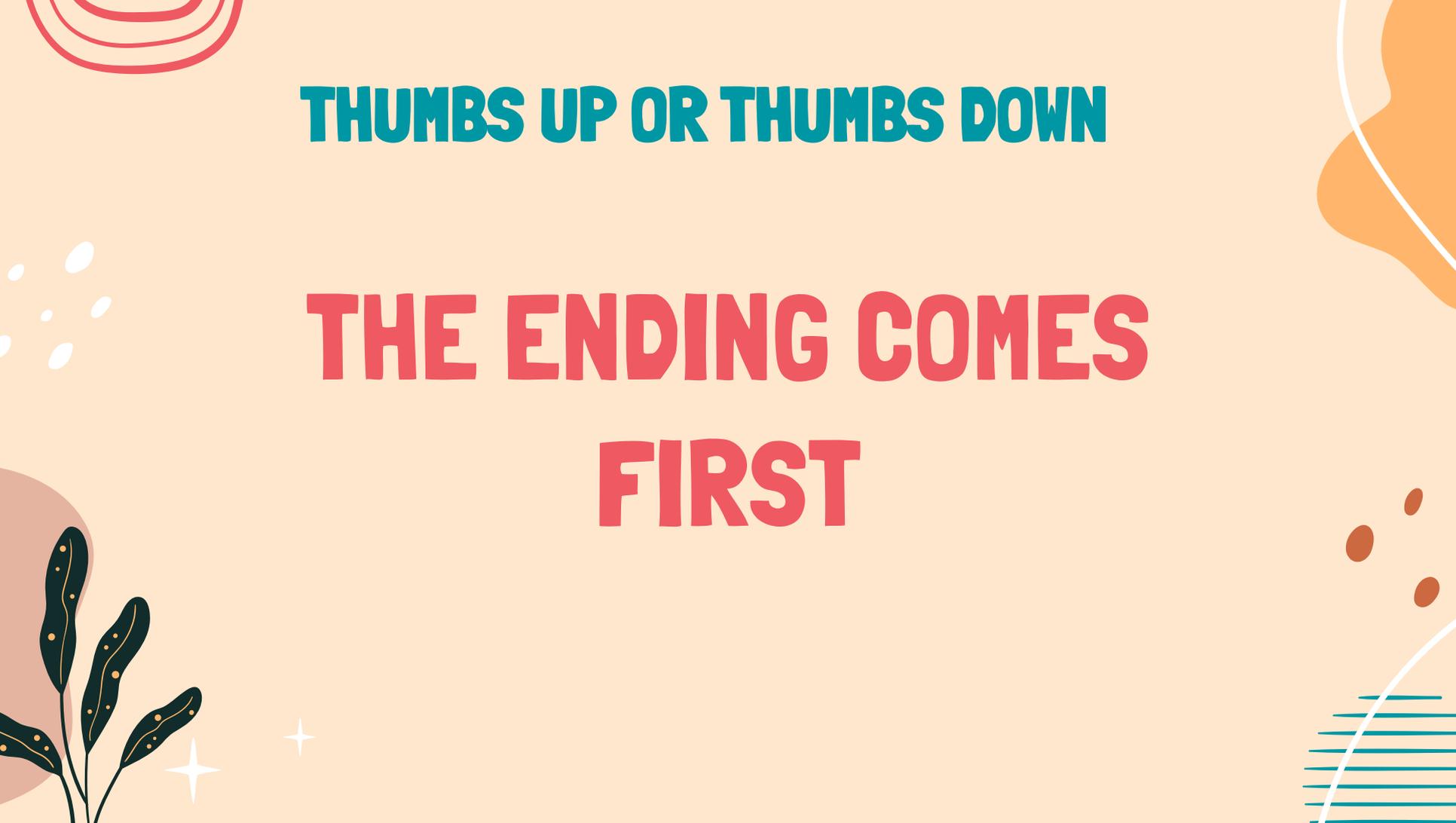
THUMBS UP OR THUMBS DOWN

INSTRUCTIONS:

IF YOU THINK IT IS **RIGHT**,
THUMBS UP

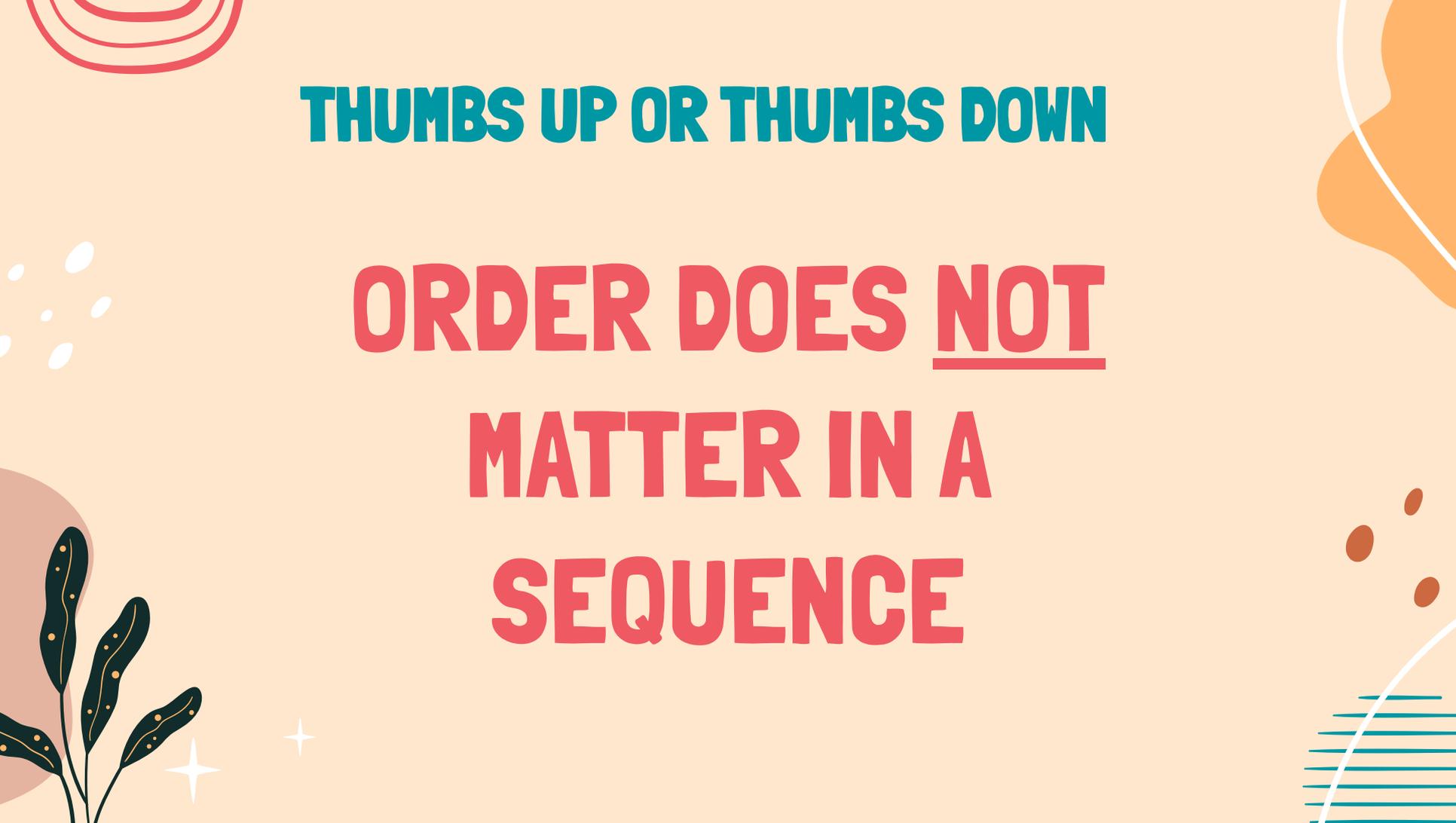
IF YOU THINK IS IS **WRONG**,
THUMBS DOWN





THUMBS UP OR THUMBS DOWN

**THE ENDING COMES
FIRST**



THUMBS UP OR THUMBS DOWN

**ORDER DOES NOT
MATTER IN A
SEQUENCE**



THUMBS UP OR THUMBS DOWN

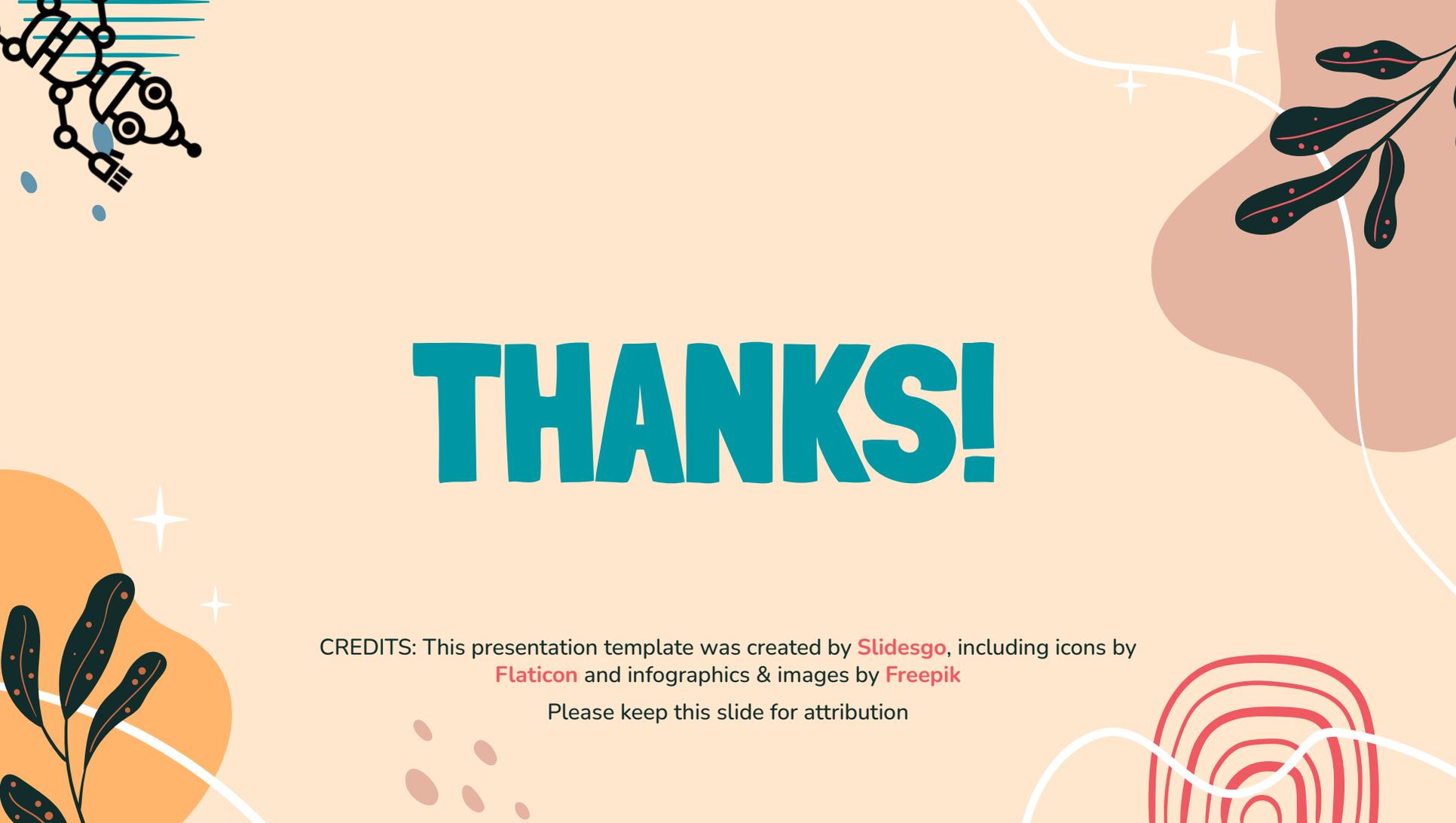
**THERE IS A BEGINNING,
MIDDLE, AND END IN A
SEQUENCE**





THUMBS UP OR THUMBS DOWN

**THE MIDDLE COMES
FIRST**



THANKS!

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