eBooks & eComics

WHAT: Book Creator is an iPad and Android app that lets you design and publish your own customized eBook.

YOUR CHALLENGE: Using data collected from your lab work, create an interactive eBook or comic strip to tell the story of a scientific phenomenon or burning question.
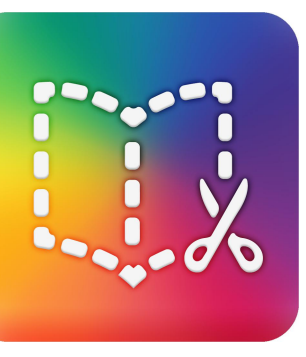
CAN YOU:
➔ Use a storyboard to help organize your thoughts and map the action?
➔ Create an engaging dialogue of characters?
➔ Embed appropriate scientific language and vocabulary?
➔ Craft a compelling conclusion?
➔ Add sound effects or music?

How antihistamine works.

BEATRICE the BIOLOGIST
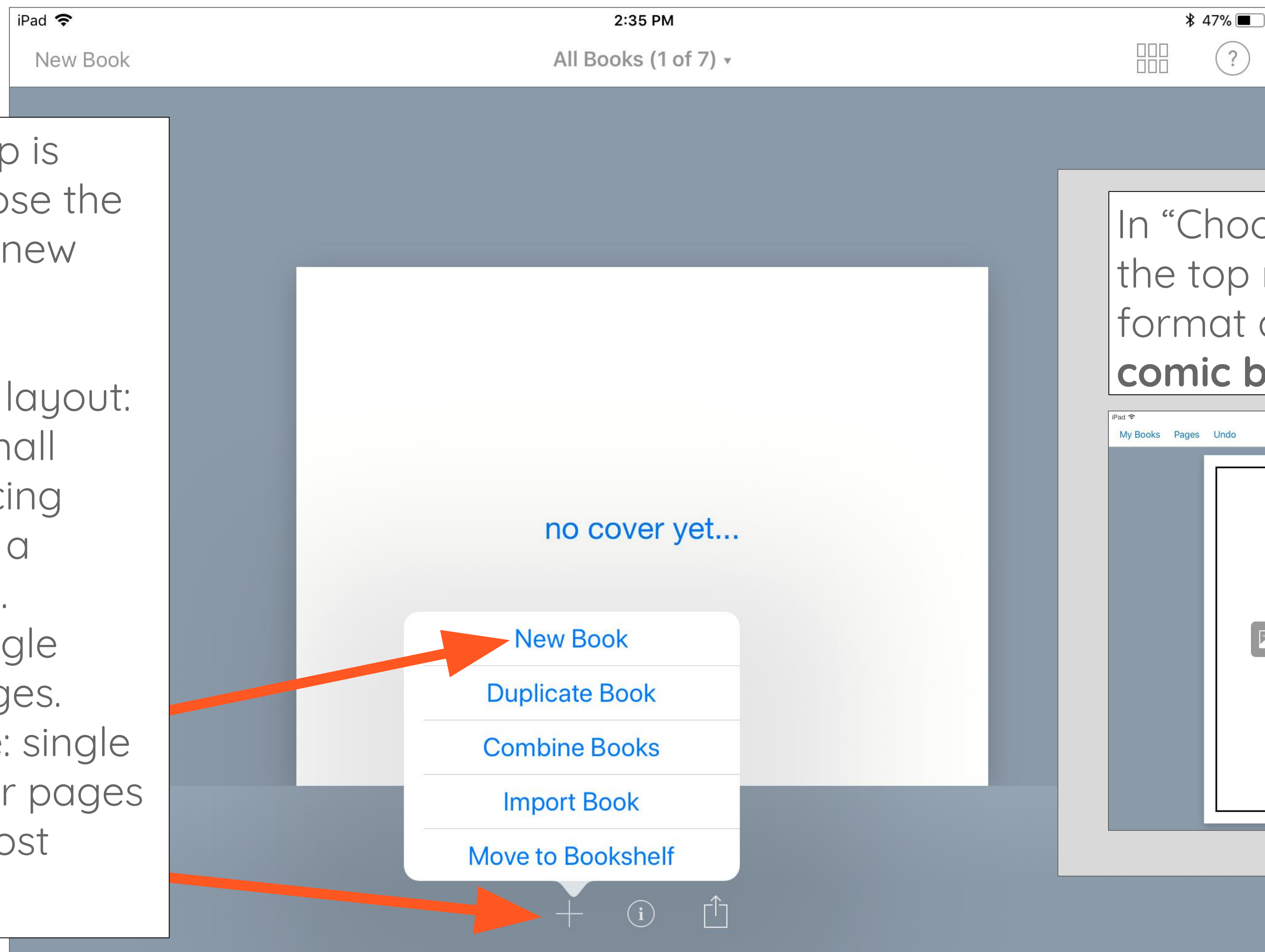
Book Creator: Creating an eBook

App landing page:

iPad 🔋   2:35 PM   ⚡ 47% 🔋

New Book   All Books (1 of 7) ▾

When the app is opened, choose the "**+**" to create new book.

Choose your layout:
- Portrait: small vertical facing pages, like a paperback.
- Square: single square pages.
- Landscape: single rectangular pages with the most room.

no cover yet...

New Book
Duplicate Book
Combine Books
Import Book
Move to Bookshelf

In "Choose a book shape", the top row is a standard format and the bottom is a **comic book format.**

Once inside a "standard" book:

Choose plus sign options to add: text, images/video, drawing.

iPad 🔋   14:45   ⚡ 100% 🔋

My Books   Pages   Undo   Cover

Pages: edit page order and/or delete pages.

Undo: go back to the previous change.

Some text...

| Text | Page |

20 px

A ⊝━━●━━ A

| B | I | U |

Font   Helvetica ›
Color
Background   None ›

LAYOUT

Align

Move to Back/Front

Delete

"i" symbol gives you many format options. For text options, make sure your text box is selected first. Or select Page to change page options (page color, etc.)
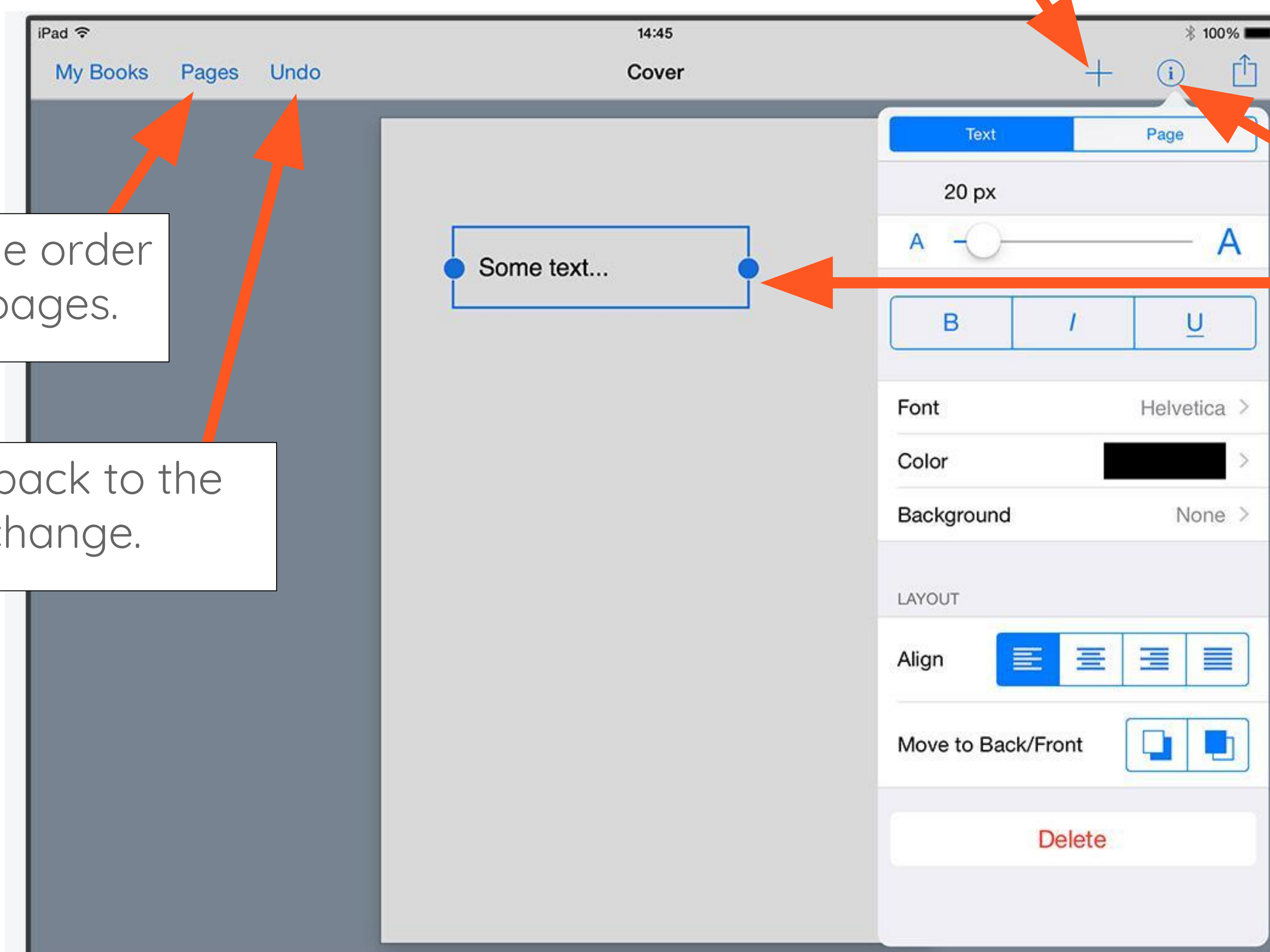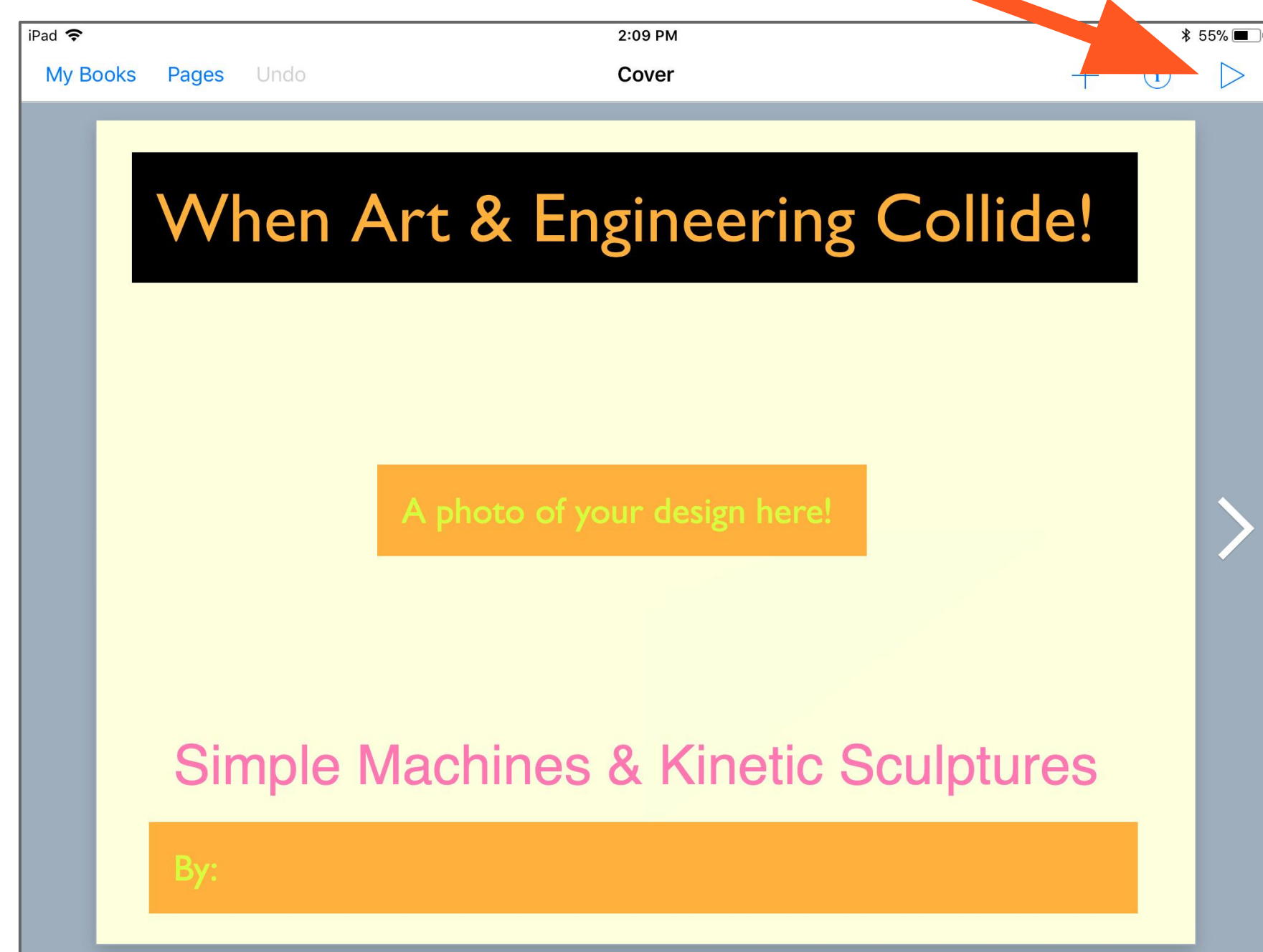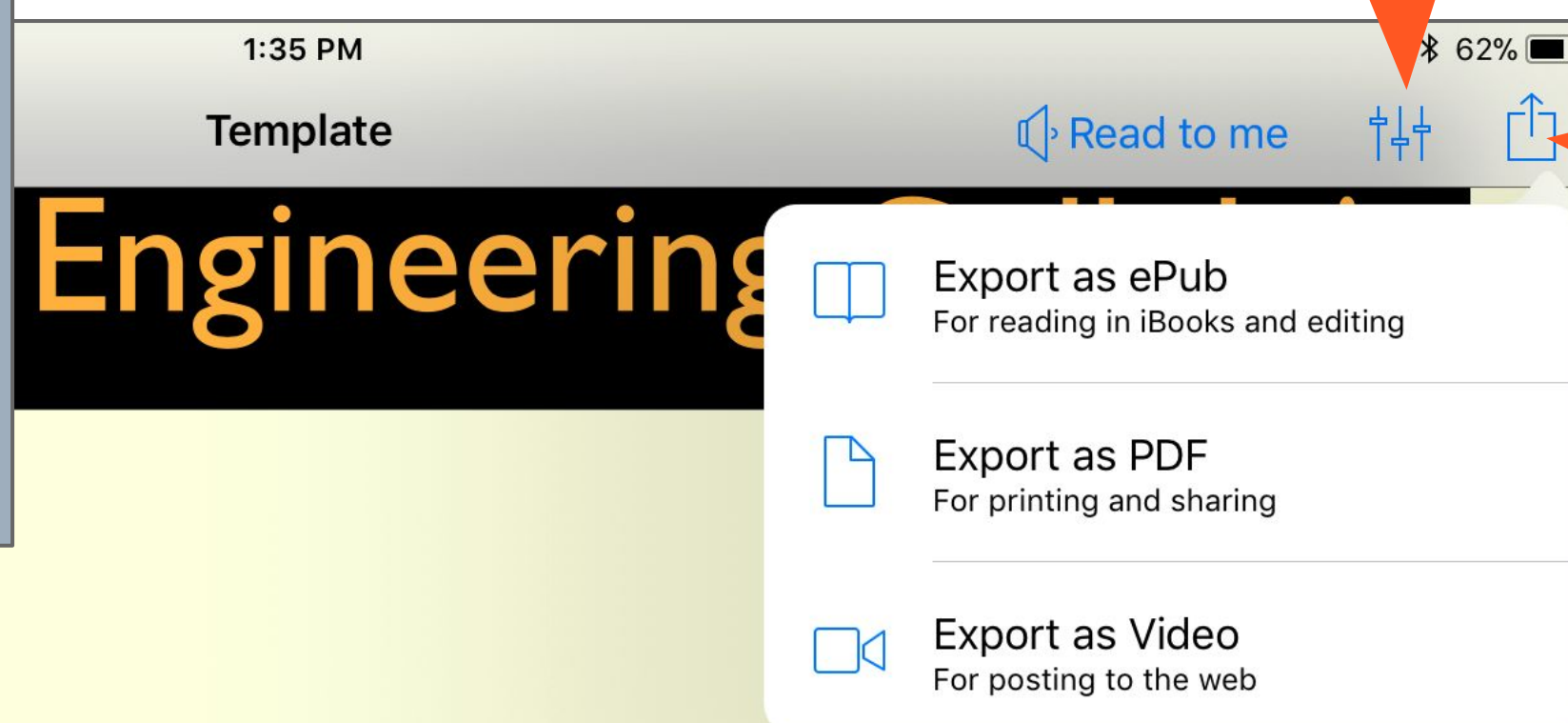
Book Creator: Exporting an eBook

Press the blue triangle to enter preview mode.

When Art & Engineering Collide!

A photo of your design here!

Simple Machines & Kinetic Sculptures

By:

Customize the "Read to me" feature, or adjust your pages single or double facing.

1:35 PM — Template — Read to me

Engineering

Export as ePub
For reading in iBooks and editing

Export as PDF
For printing and sharing

Export as Video
For posting to the web

A photo of your design here!

nple Machines & Kinetic Sculptures

Press the "share" button to export your eBook as an ePub, PDF, or video.

You may need to tinker with individual pages to customize how long each page is displayed.

Hint: A blank audio file can be hidden on a page to extend the amount of time that page is displayed in the exported video.

The preview mode lets you see what an exported eBook will look like. By flipping through the pages, you can make sure it's ready.

Exporting your eBook:

ePub:
- Share and store an .ePub file directly to Google Drive. Viewable only if you bring it back into Book Creator or another eBook app.
- Or, export ePub directly into iBooks to view it with all its features.
- Import an ePub into Book Creator from Google Drive: first login to Google Drive. Tap on ePub file, click on "..." icon and then choose "Open in" and then "Book Creator".

PDF:
- Specify if you would like single pages or side by side pages.
- Choose Mail, Drive (Google Drive), or tap to share with AirDrop.

Video:
- Exports as a video file, and plays back similar to a slideshow, showing each page.
- Insert a blank audio file and hide it behind an image to make a page display longer (Example: if you have a lot of text you would like people to read.)
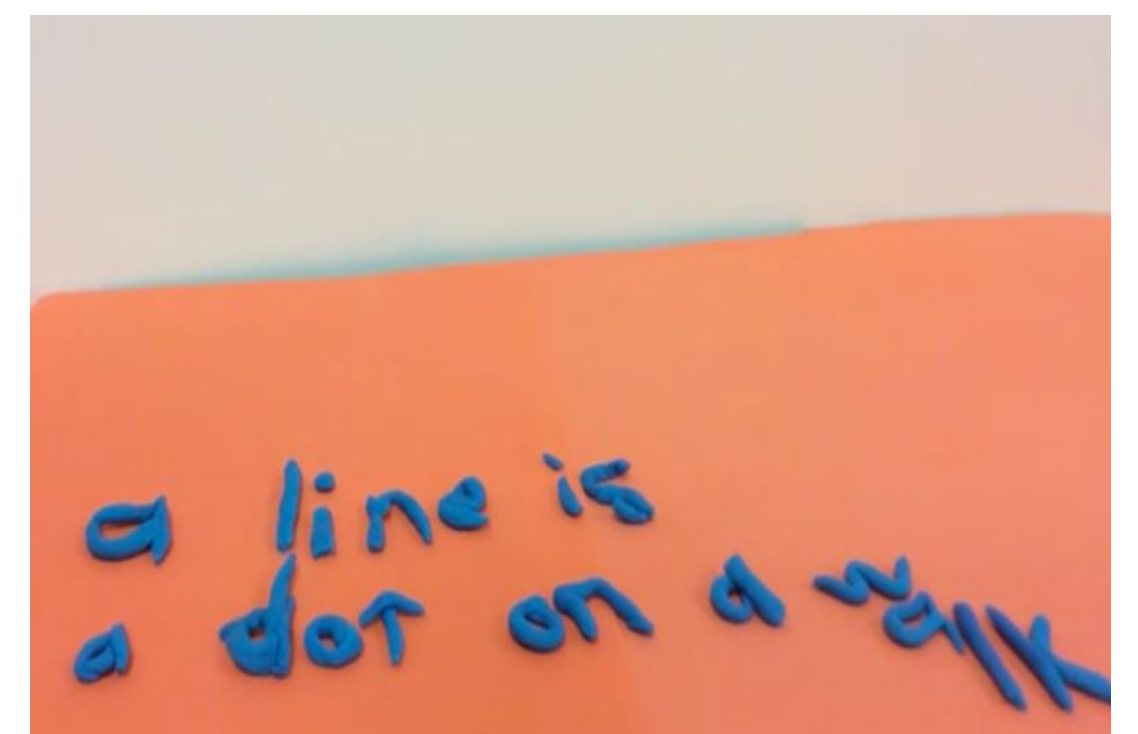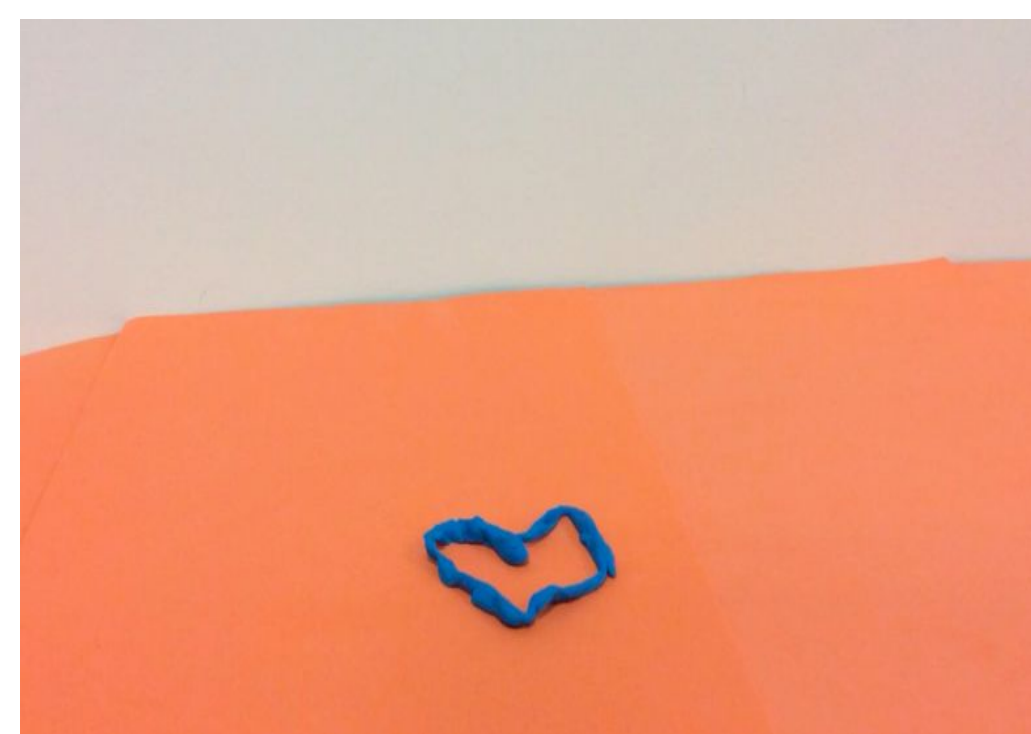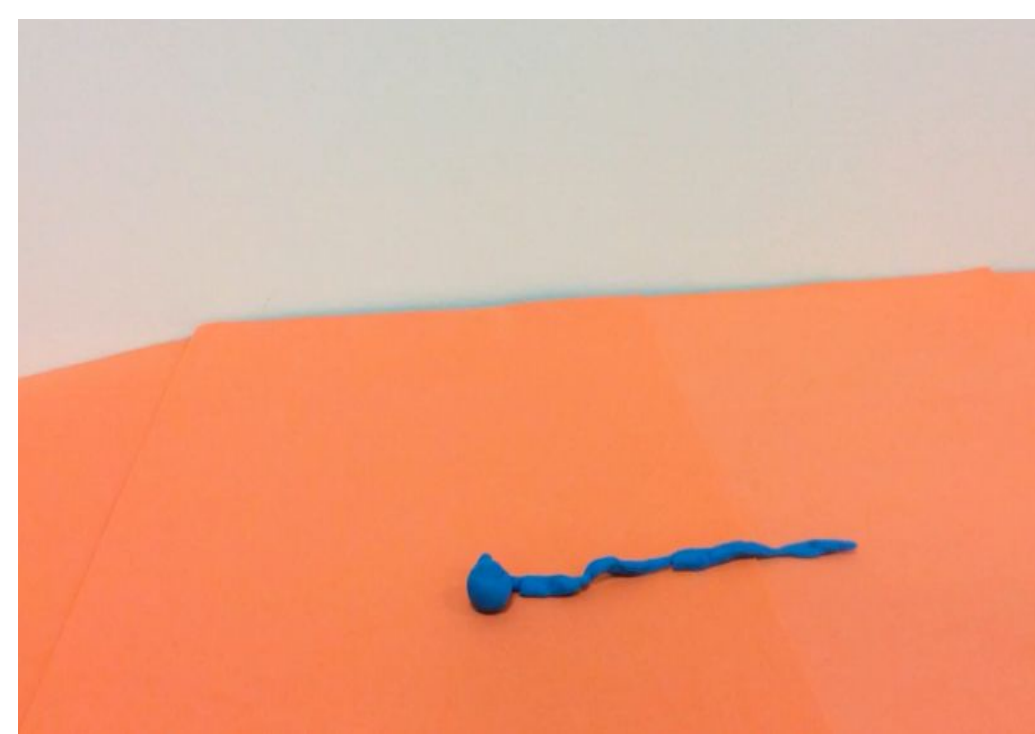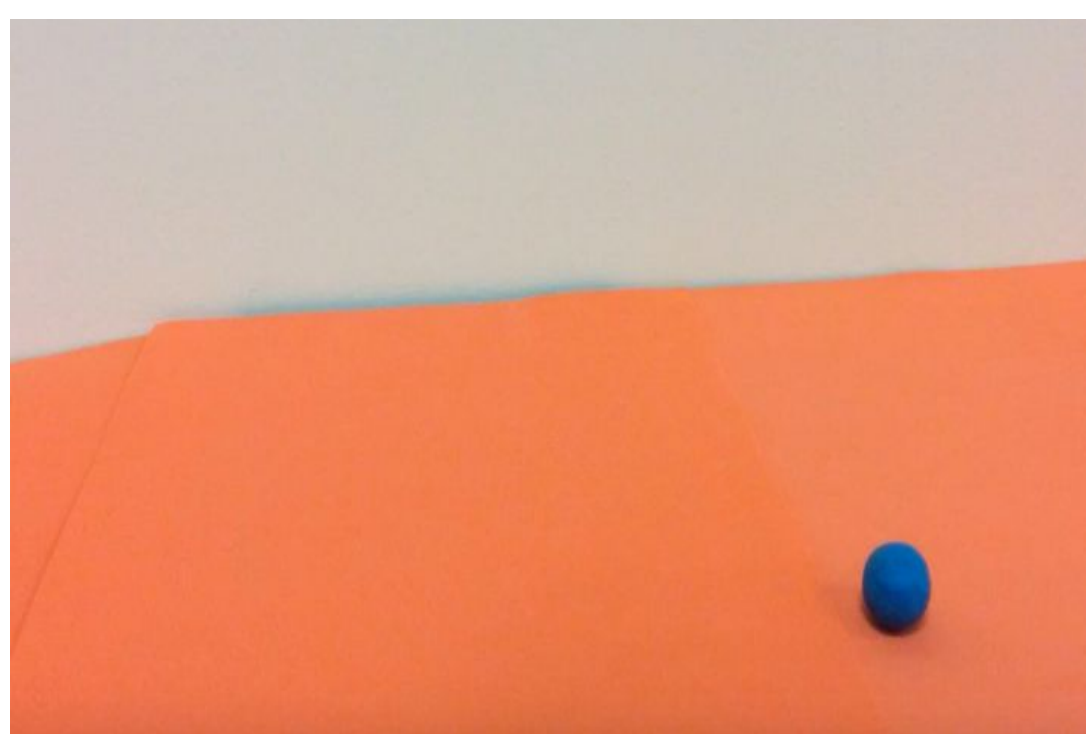
Poetry in Action

WHAT: Stop motion animation is where you take many photos of objects or characters and string them together into a movie. Each time you take a picture, you'll move the character or object just a tiny amount. The onion skin feature helps you line up your shots to create a smooth animation. The voice recording feature even lets you narrate the story once you're done filming.

YOUR CHALLENGE: Bring a poem of your choice to life through stop motion.

CAN YOU:
➔ Take advantage of the text structure?
➔ Bring new meaning to the author's use of language and word choice?
➔ Take at least 50 - 100 photos to help make the animation flow organically?
➔ Add a voice narration and sound effects with attention to rate and expression of your reading?
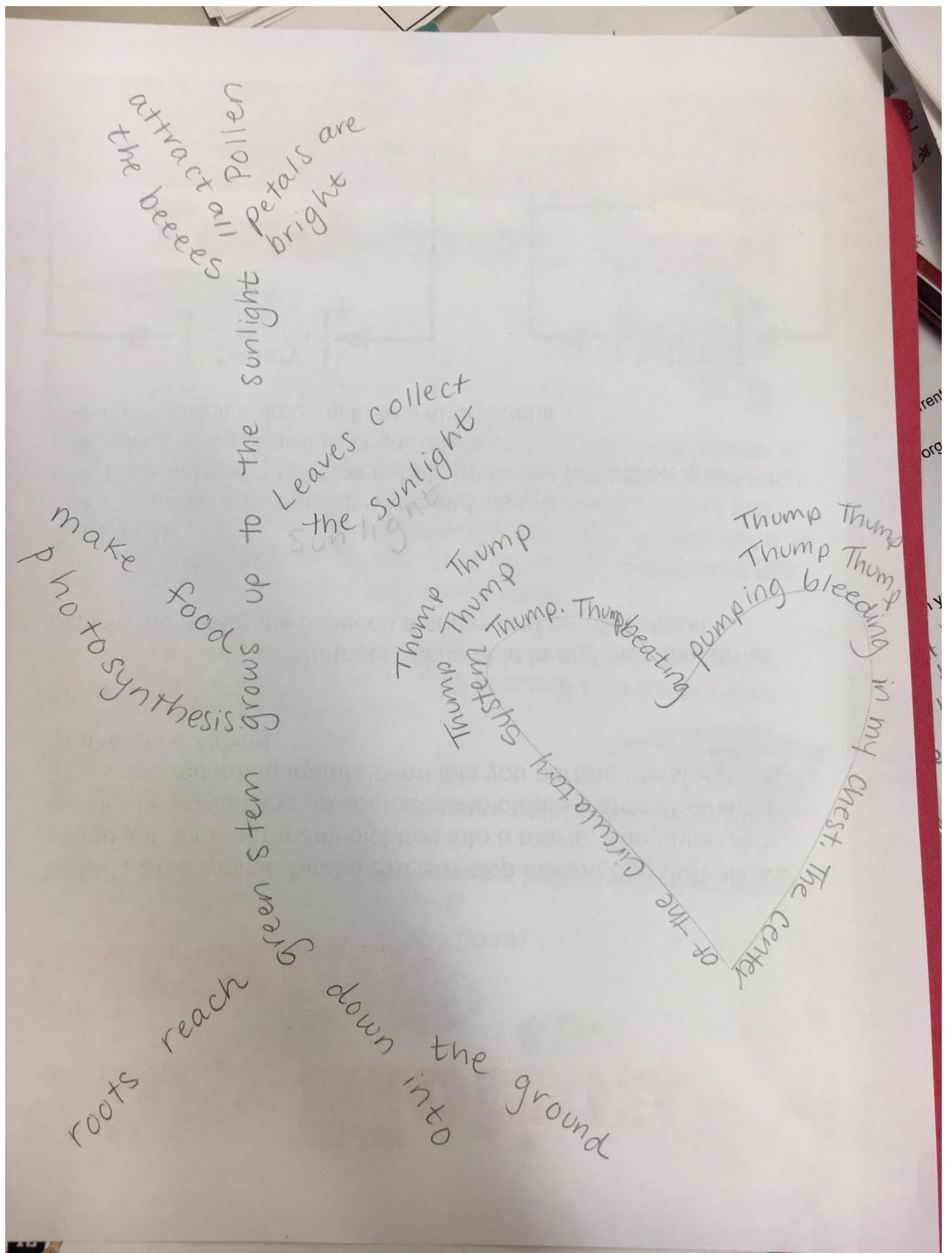
Poetry in Action

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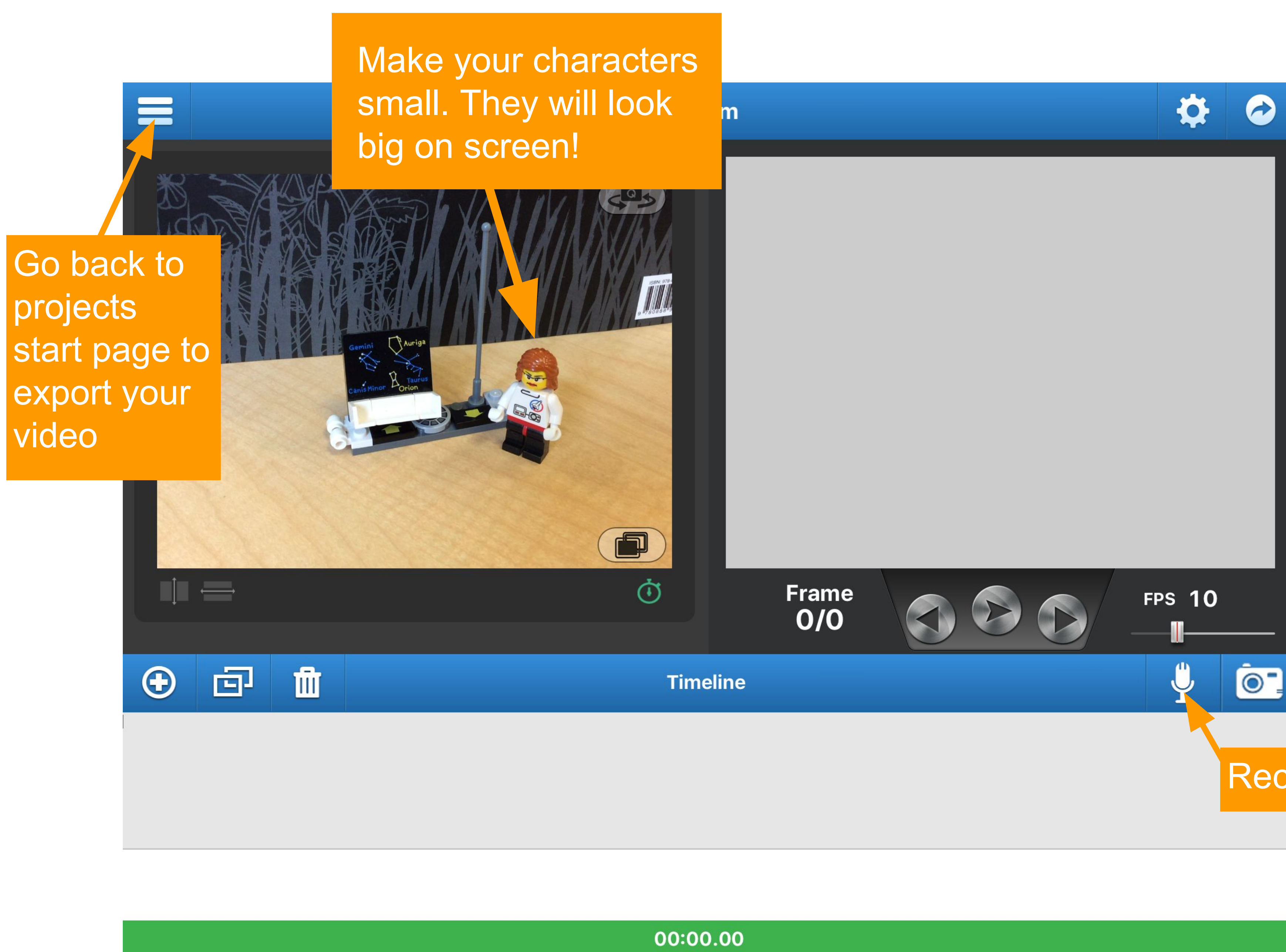**YOUR CHALLENGE:** Take photos of words to create a concrete poem

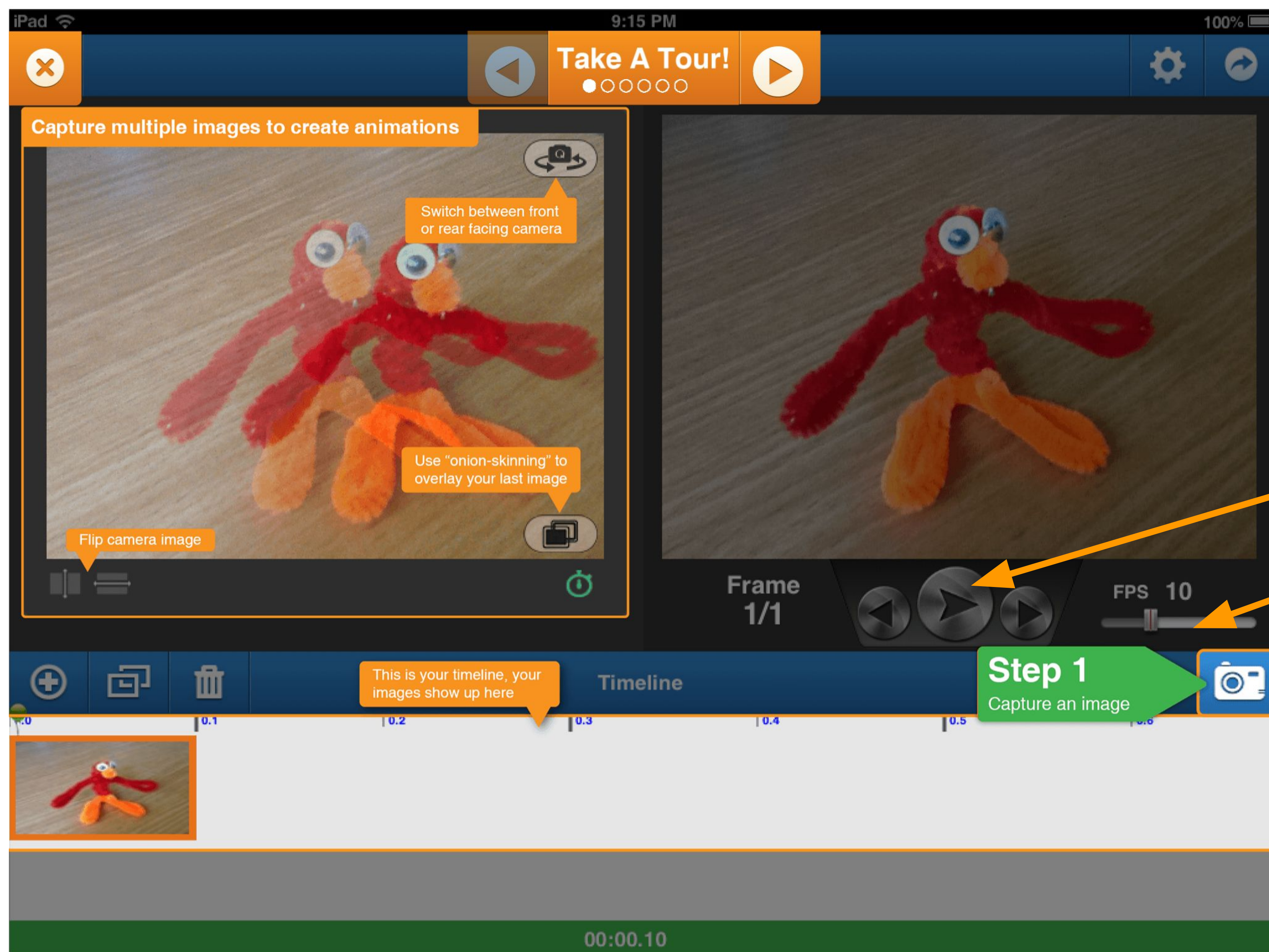## CAN YOU:

➔ Identify an object or idea to write a concrete poem about
➔ Write a short concrete poem draft
➔ Word by word, write your poem. Each word gets 1-3 photos (Snap the whole word when finished, or part of the word until it's finished
➔ Take 50-100 photos total to make the movie flow smoothly
➔ Add a voice narration and sound effects with attention to rate and expression of your reading?

MyCreate Tips

Capture multiple images to create animations

Switch between front or rear facing camera

Use "onion-skinning" to overlay your last image

Flip camera image

Playback

Adjust frames per second (how fast or slow your movie plays.

Frame 1/1

FPS 10

This is your timeline, your images show up here

Timeline

Step 1
Capture an image

00:00.10

Make your characters small. They will look big on screen!

Go back to projects start page to export your video

Frame 0/0

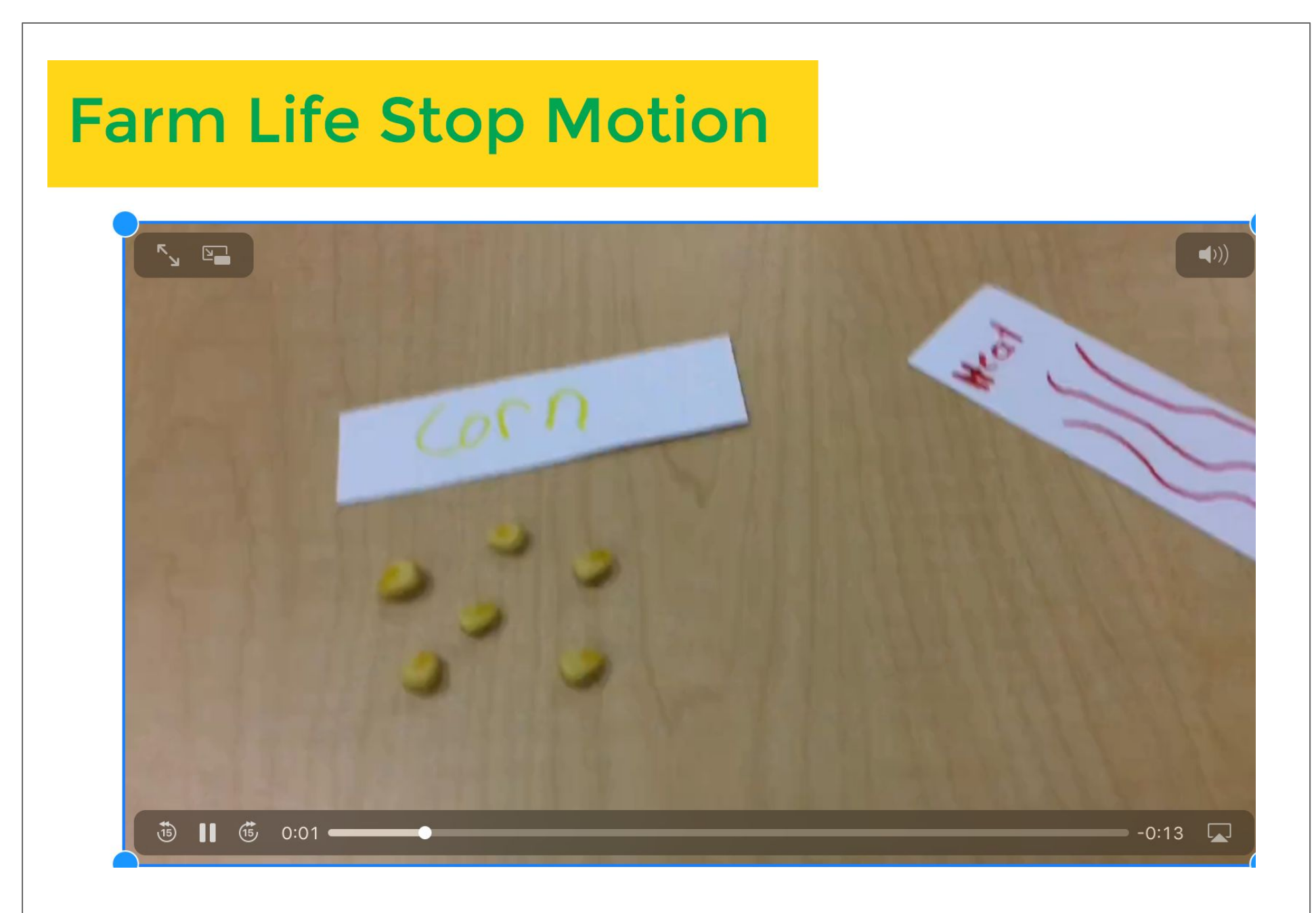FPS 10

Timeline

Record audio

00:00.00

Stop Motion Animation

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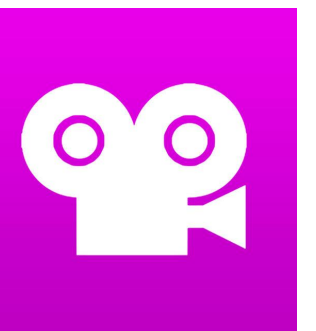
YOUR CHALLENGE: Using data collected from your lab work, create stop motion animation that tells the story of a scientific phenomenon, transformation, or burning question.
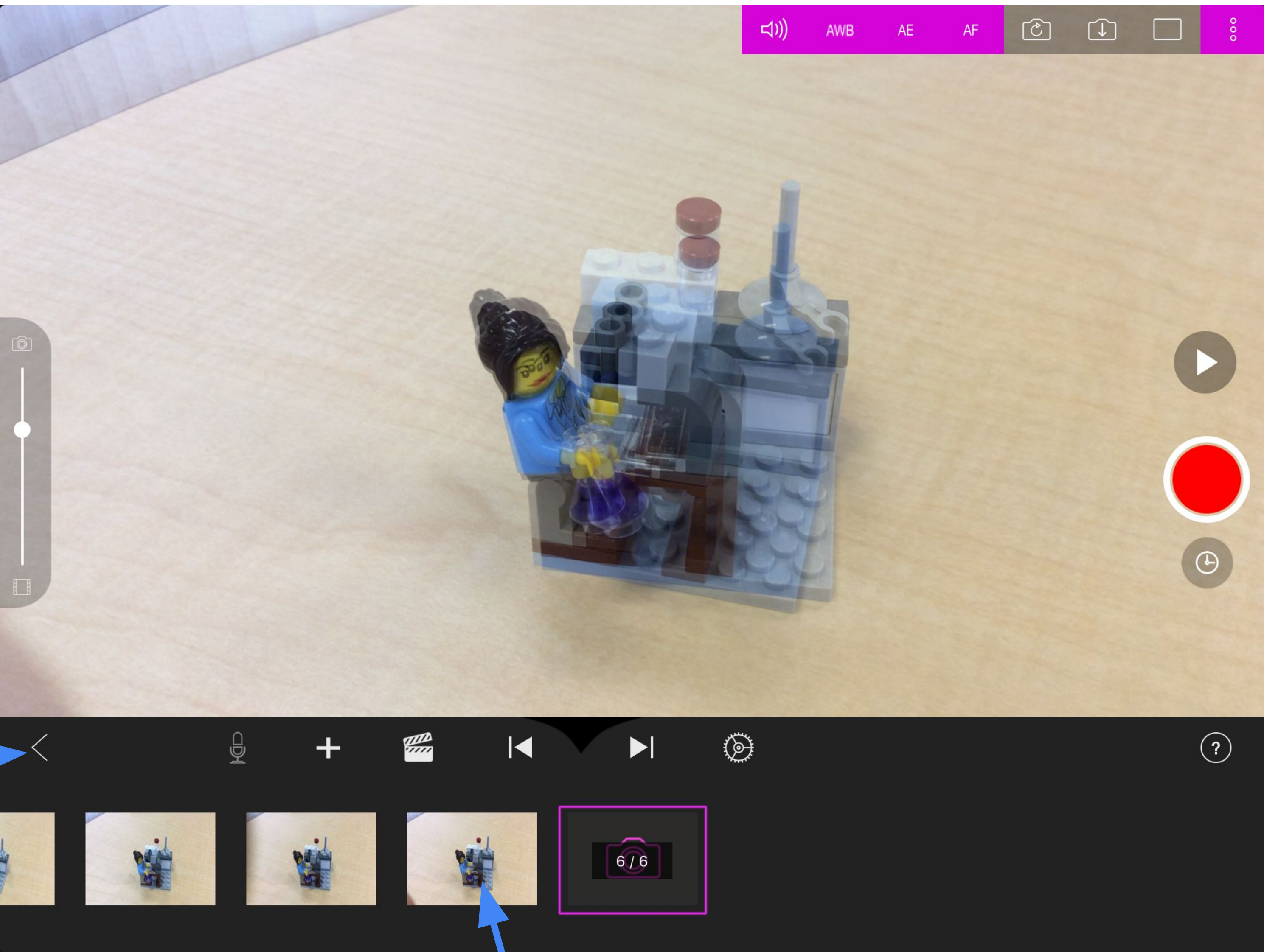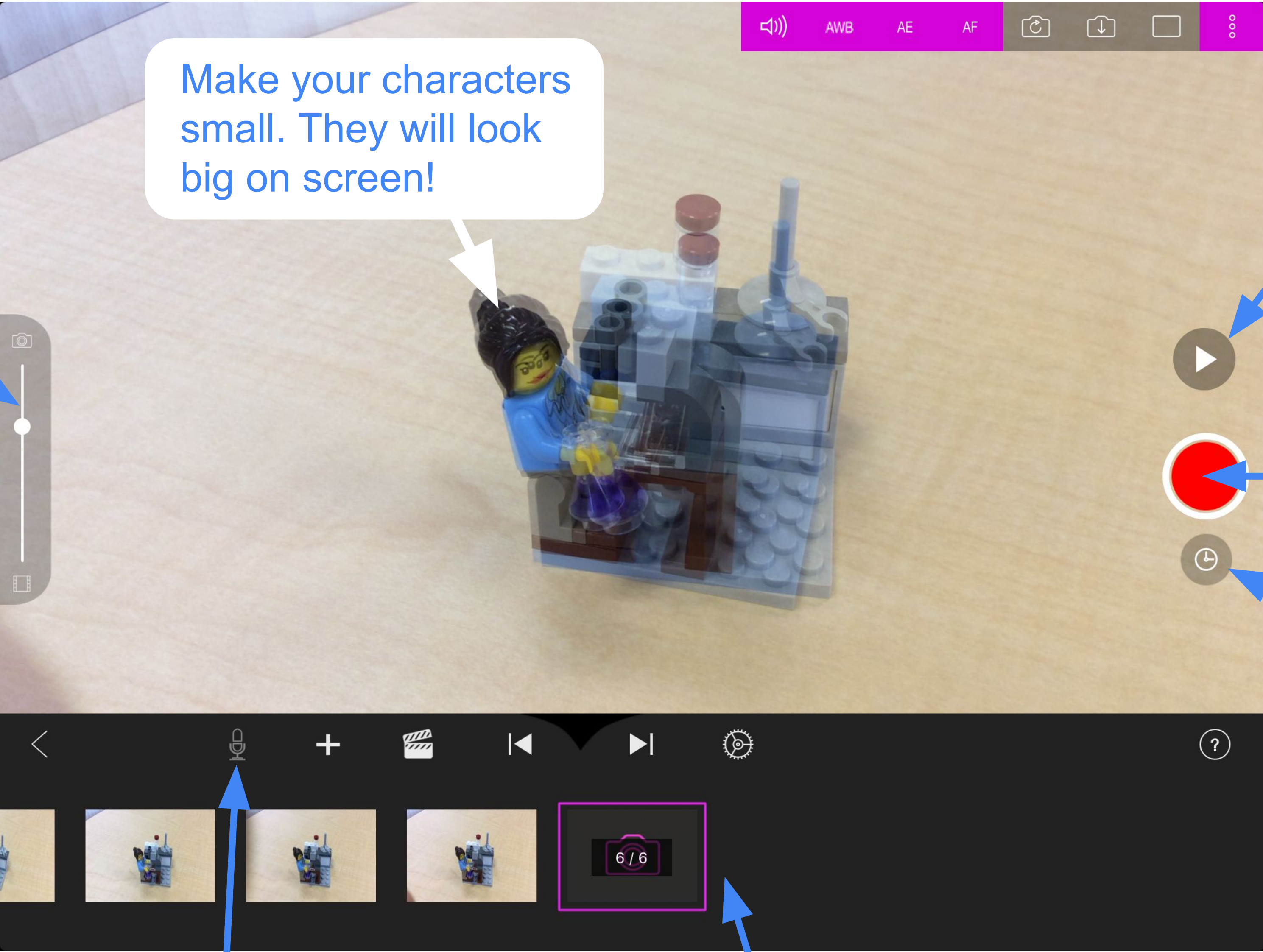
CAN YOU:

➔ Create a basic storyboard that tells your story in small chunks (scenes).
➔ Build your objects and background out of art materials.
➔ Move your objects in small increments each photo?
➔ Include labels in the video to diagram or describe the process or scene?
➔ Record your voice explaining different parts of the process?

Farm Life Stop Motion

https://bookcreator.com/2016/04/comic-book-here-are-finalists/

Stop Motion Studio Pro Tips

Onion skin feature allows you to view hint of previous image (frame).

Make your characters small. They will look big on screen!

Playback

Camera button

Adjust frames per second: the higher the number, the faster your movie will be.

Record audio/narration. Will give a 3 second countdown.

Timeline: shows all of your images (frames) taken.

6 / 6

Go back to projects start page to export your video

6 / 6

Holding your finger down on a frame reveals a variety of tools, including delete one frame.
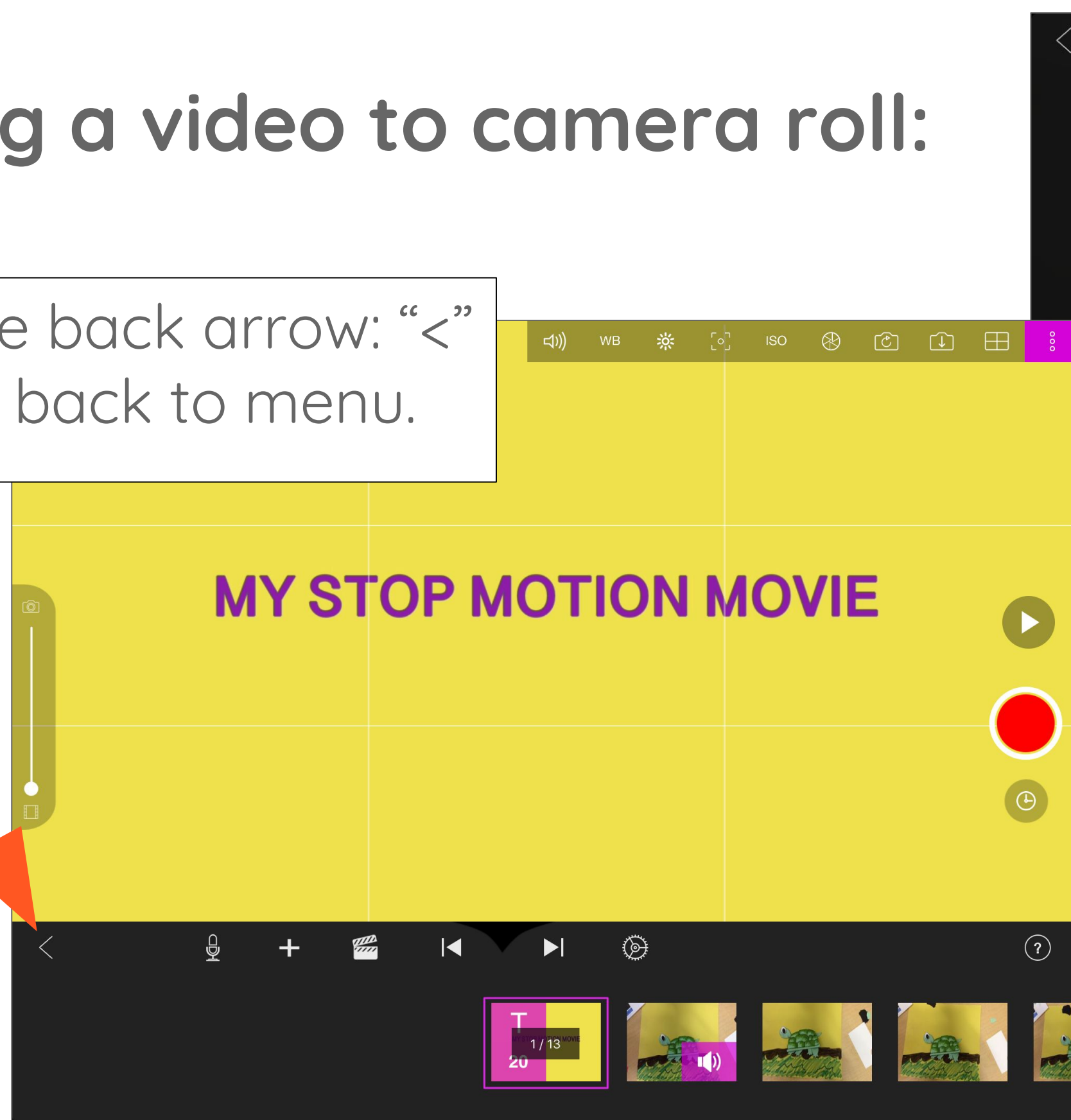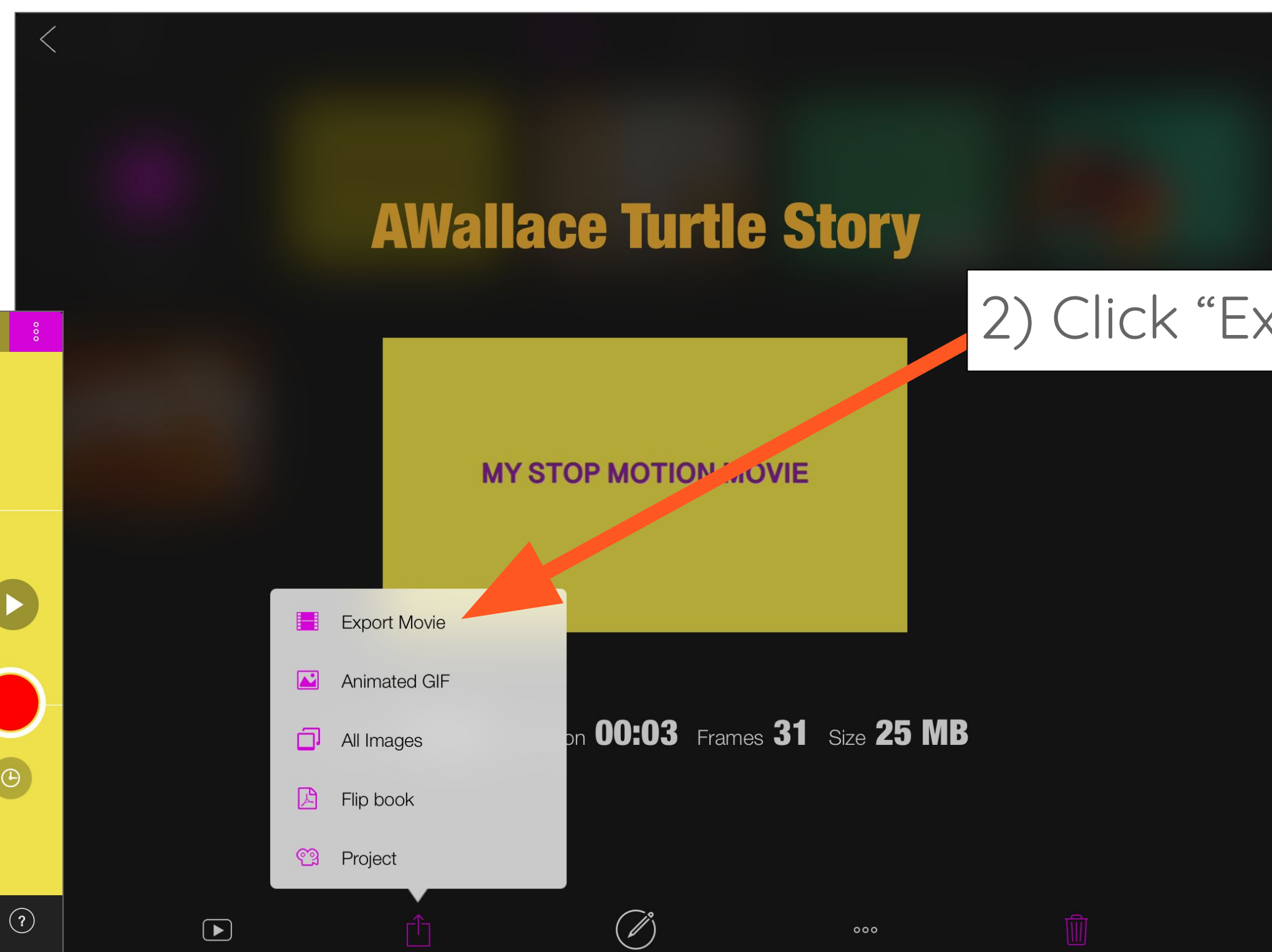
Stop Motion Studio Exporting

Exporting a video to camera roll:

1) Click the back arrow: "<" to go back to menu.

MY STOP MOTION MOVIE

2) Click "Export Movie"

AWallace Turtle Story

MY STOP MOTION MOVIE

Export Movie
Animated GIF
All Images
Flip book
Project

00:03 Frames 31 Size 25 MB

4) Then choose "HD-1080p" and "Share."

AWallace Turtle Story

Cancel   Share

Please choose export format.

UHDTV - 4K
HD - 1080p ✓

Estimated size at selected format 1 MB.
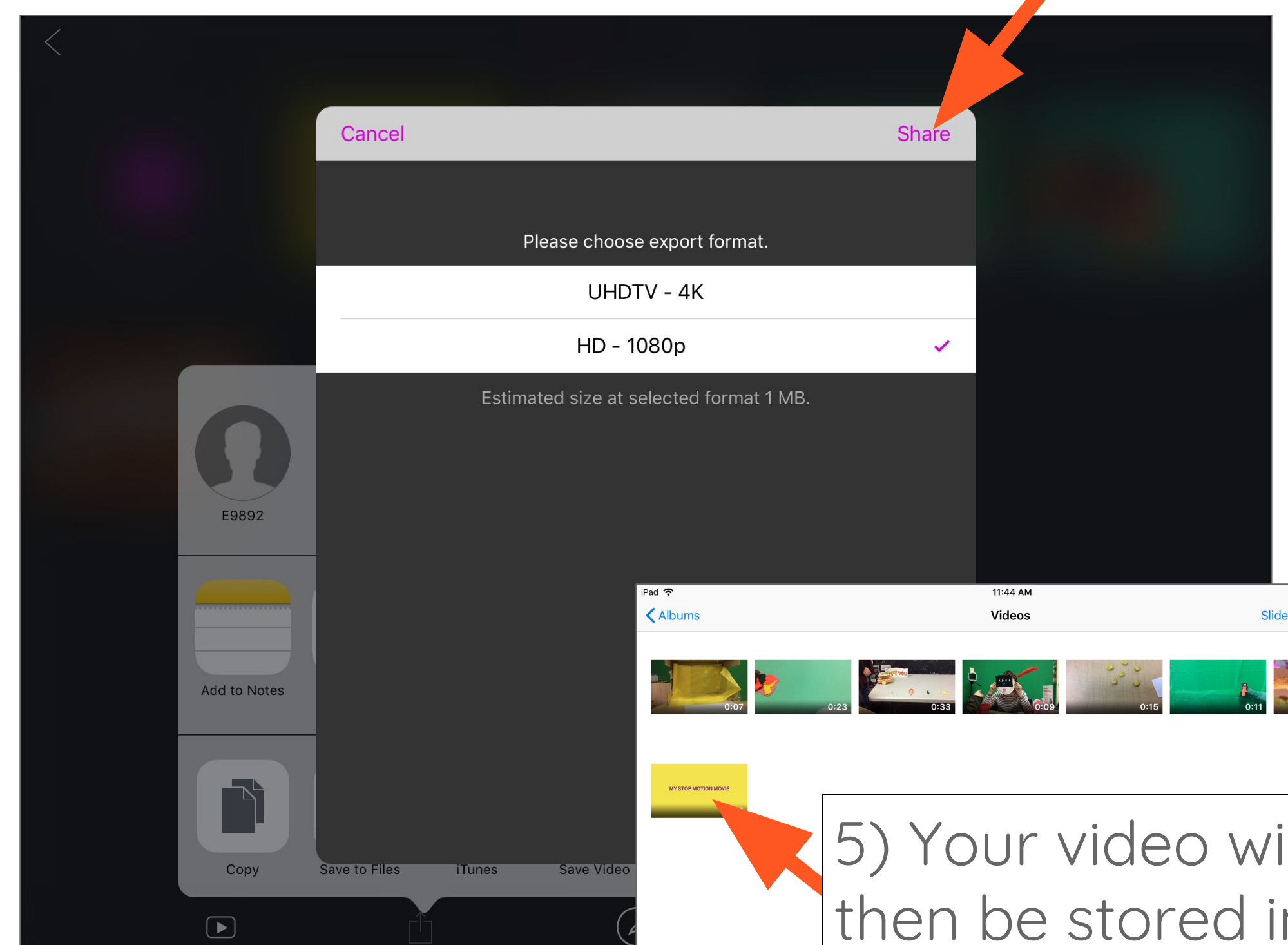
3) Choose "Save Video" in the pop up menu.

Tap to share with AirDrop

E9892

Add to Notes   Drive   iCloud Photo Sharing   Youtube

Copy   Save to Files   iTunes   Save Video

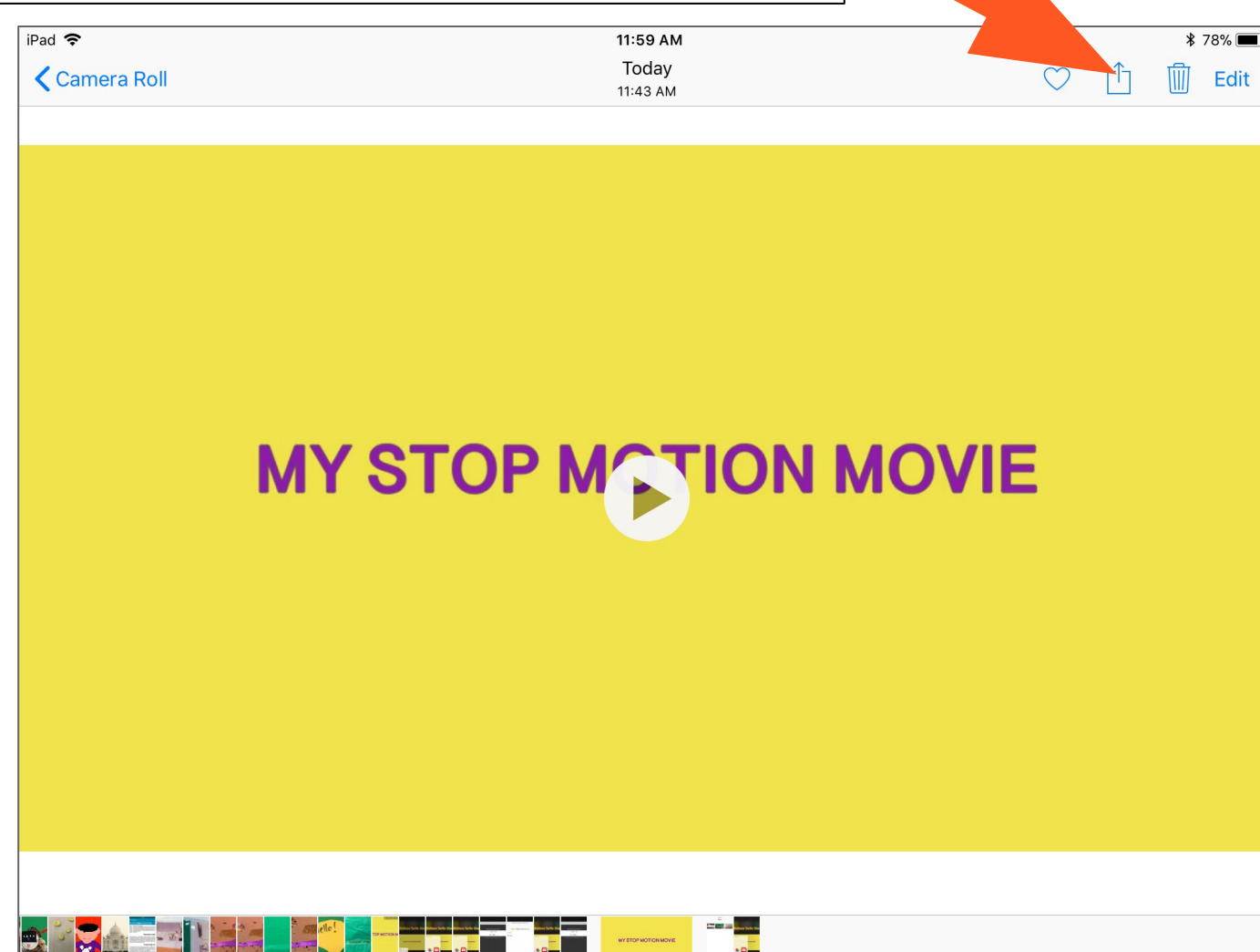Frames 31 Size 25 MB

Albums   Videos   Slideshow Select
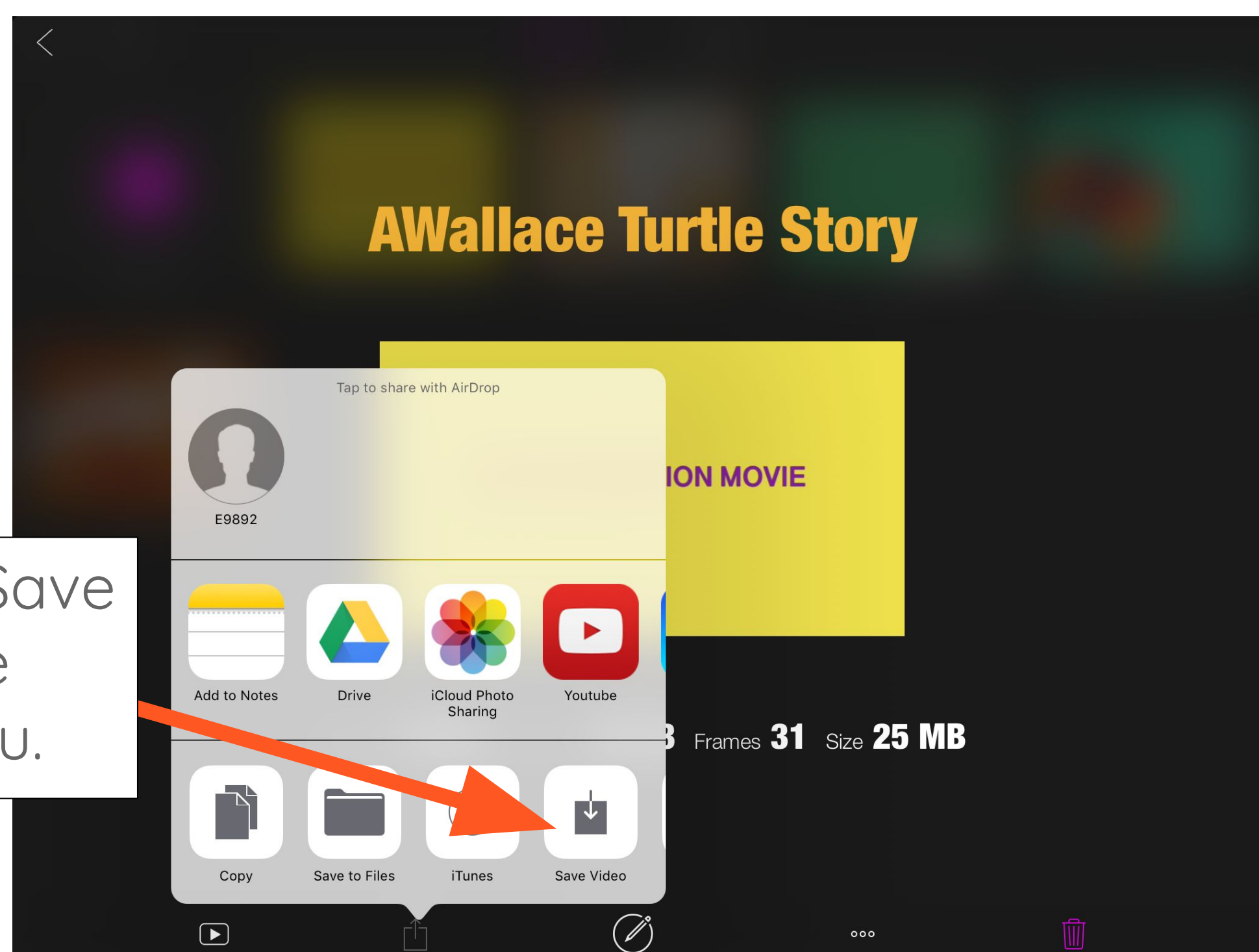
5) Your video will then be stored in your Photos library.
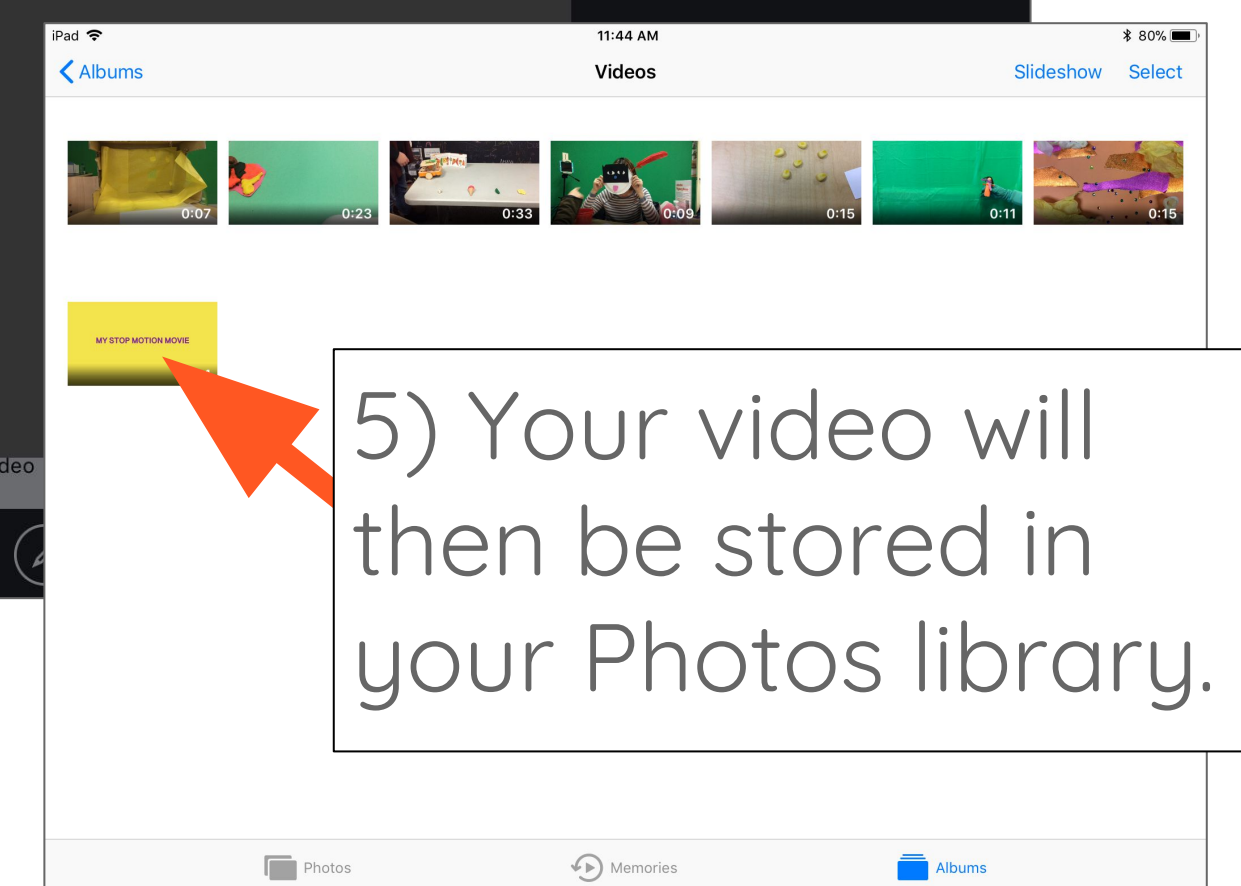
Uploading a video from camera roll to Google Drive:

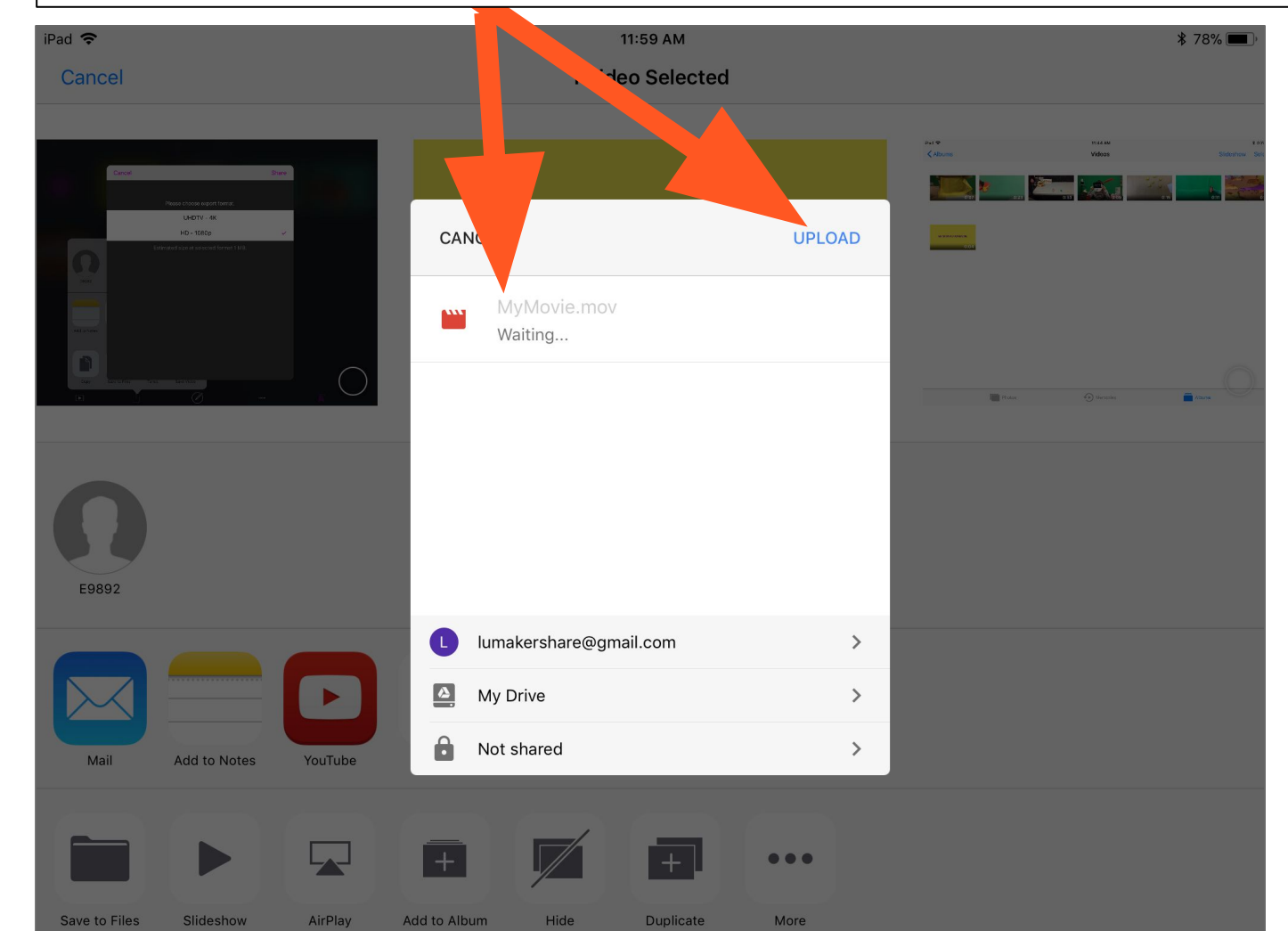1) Click share icon.

Camera Roll   Today
                     11:43 AM

MY STOP MOTION MOVIE

2) Click Google Drive icon.

Cancel   1 Video Selected

MY STOP MOTION MOVIE

Tap to share with AirDrop

E9892

Mail Add to Notes YouTube Drive More

Save to Files Slideshow AirPlay Add to Album Hide Duplicate More
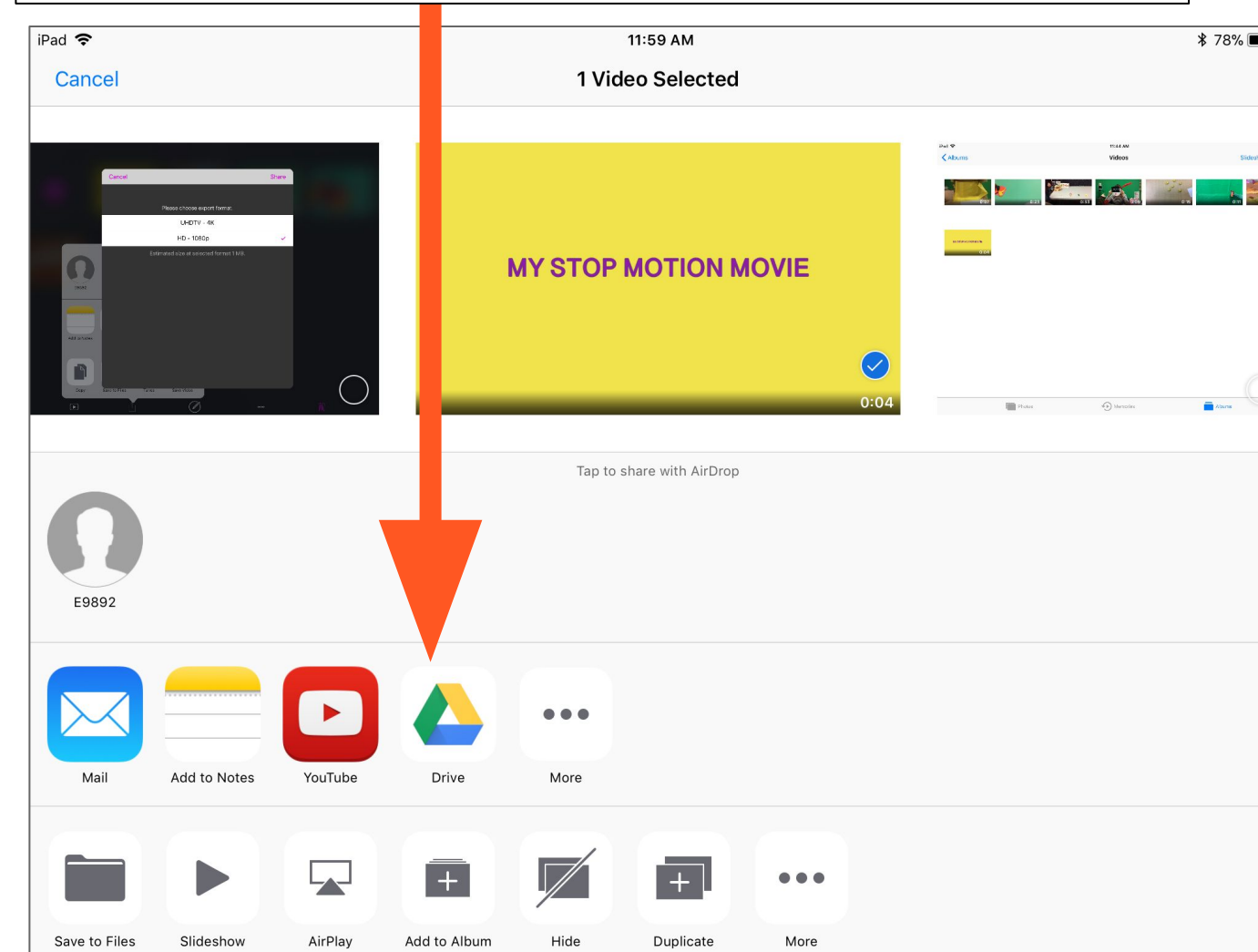
3) Rename movie & click upload.

Cancel   UPLOAD

MyMovie.mov
Waiting...

lumakershare@gmail.com
My Drive
Not shared

Storytelling with Scratch Jr.

WHAT: Scratch Jr. uses color-coded "blocks" that can be dragged down into the programming area to instruct a character to do something (move, talk, jump, etc). These command blocks can be snapped together to create more complex instructions

Note: you need to begin with one of the **yellow blocks** (like the green flag). Click on the green flag at the top of the screen to make your program go!

Add a character

Add a scene

YOUR CHALLENGE: Program your character to move, jump and dance. Create more than one scene and more than one character to tell a story.
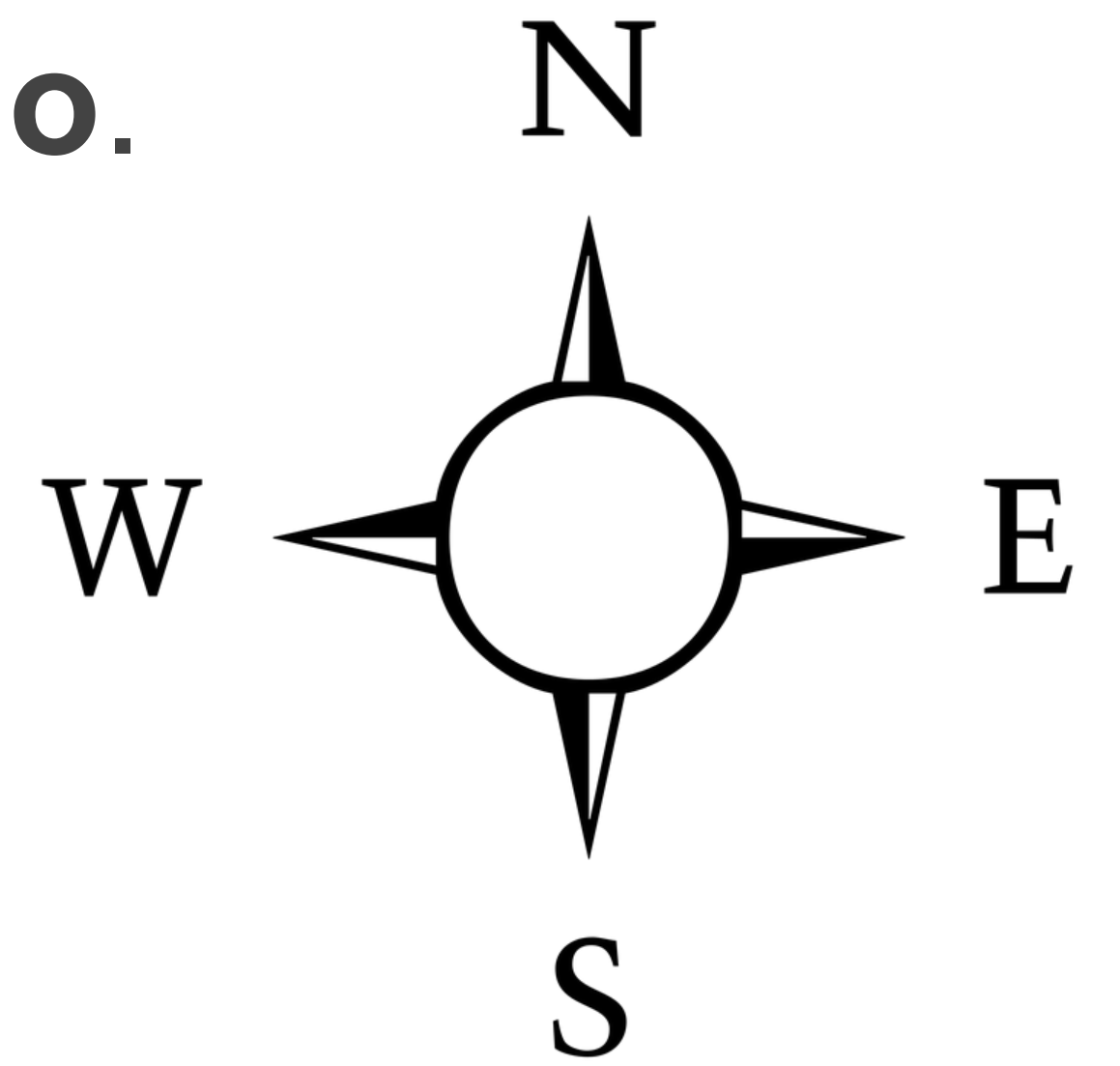
CAN YOU PROGRAM:
➔ An action that uses a repeat or wait block?
➔ A character that has your face? (hint: camera feature)
➔ A character that talks: with speech bubbles or sound?

Bee-Bot City

WHAT: The Bee Bot robot is programmed by pressing the desired buttons and then pressing **go**.

Note: <u>Be sure to press **clear** between each program!</u> You can press more than one button (multiple instructions) before pressing go.

YOUR CHALLENGE: Help us build our Robot City!

1. Using recyclables: create a streetscape/neighborhood.
2. Use post-its or cardstock to label the environmental print, street signs, storefronts, neighborhood helpers, cardinal directions.
3. Can you program the Bee-Bot to move around the city?

CAN YOUR BOT:
➔ Turn at street corners?
➔ Repeat a move?
➔ Go up a low ramp?
➔ Turn at a 45 degree angle?

Go forward 1 step.

Turn right 90 degrees.

Pause the process.

Turn left 90 degrees.

Go backward 1 step.

Clear the memory.