

DIY Instrument with MaKey MaKey

WHAT: MaKey MaKey works by creating simple circuits connected to an input (space key, up arrow key). Control the computer by turning conductive objects like fruit, tin foil, and water into a touch pad, mouse or keyboard.

YOUR CHALLENGE: Use conductive materials to design your own instruments and create an original piece of music. (<http://makeymakey.com/piano/>)

CAN YOU:

- Make yourself into an instrument?
- Create a song?
- Make a friend part of your instrument?
- Make an instrument using all of your friends?



Magnetic Magic Puppet Show

WHAT: Magnets have a north pole and a south pole. When the same poles are pointed towards each other, they repel (push away), what happens when opposite poles are pointed towards each other?

YOUR CHALLENGE:

Design your own set of puppet characters to tell a story. Attach one magnet to the back of each puppet and use another magnet to move the character around.

CAN YOU:

- Build a set for your puppets?
- Move your puppets using your magnet?
- Act out your story for the group?



Color Mixing

Monster Mash-Up

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 voice recording feature even lets you narrate the story once you're done filming.

YOUR CHALLENGE: Explore primary and secondary colors through creating your own stop motion animation on an iPad.

CAN YOU:

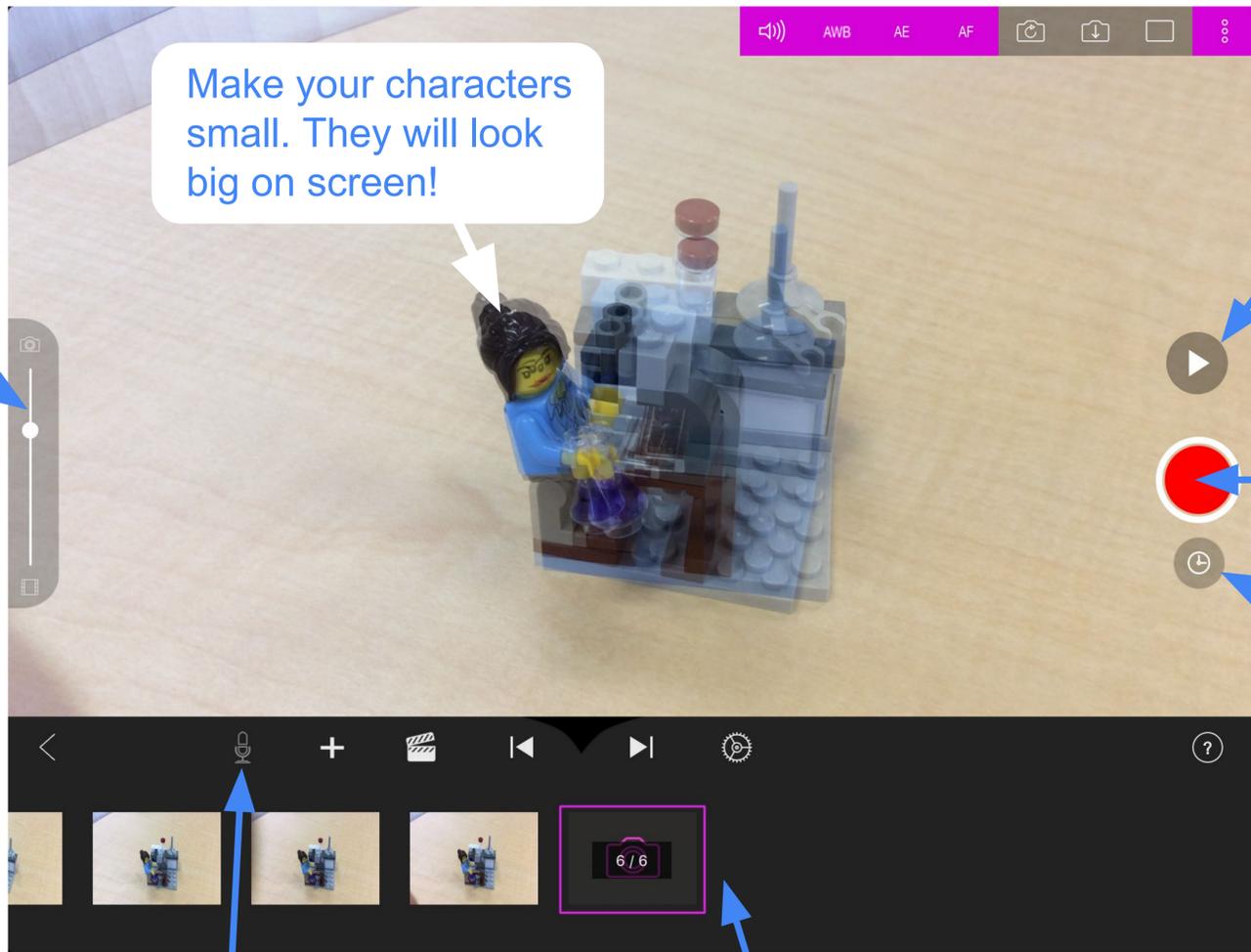
- Create two monsters out of primary colors? Make sure to add eyes!
- Take between 35-50 photos -- moving the monsters just a little tiny bit each time.
- Have your monsters move toward each other in a creative way and slowly mix into a secondary color?
- Add a voice narration at the end?



Hint: when the monsters start mixing, take the eyes out and then put them back on once the new monster is formed.



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!

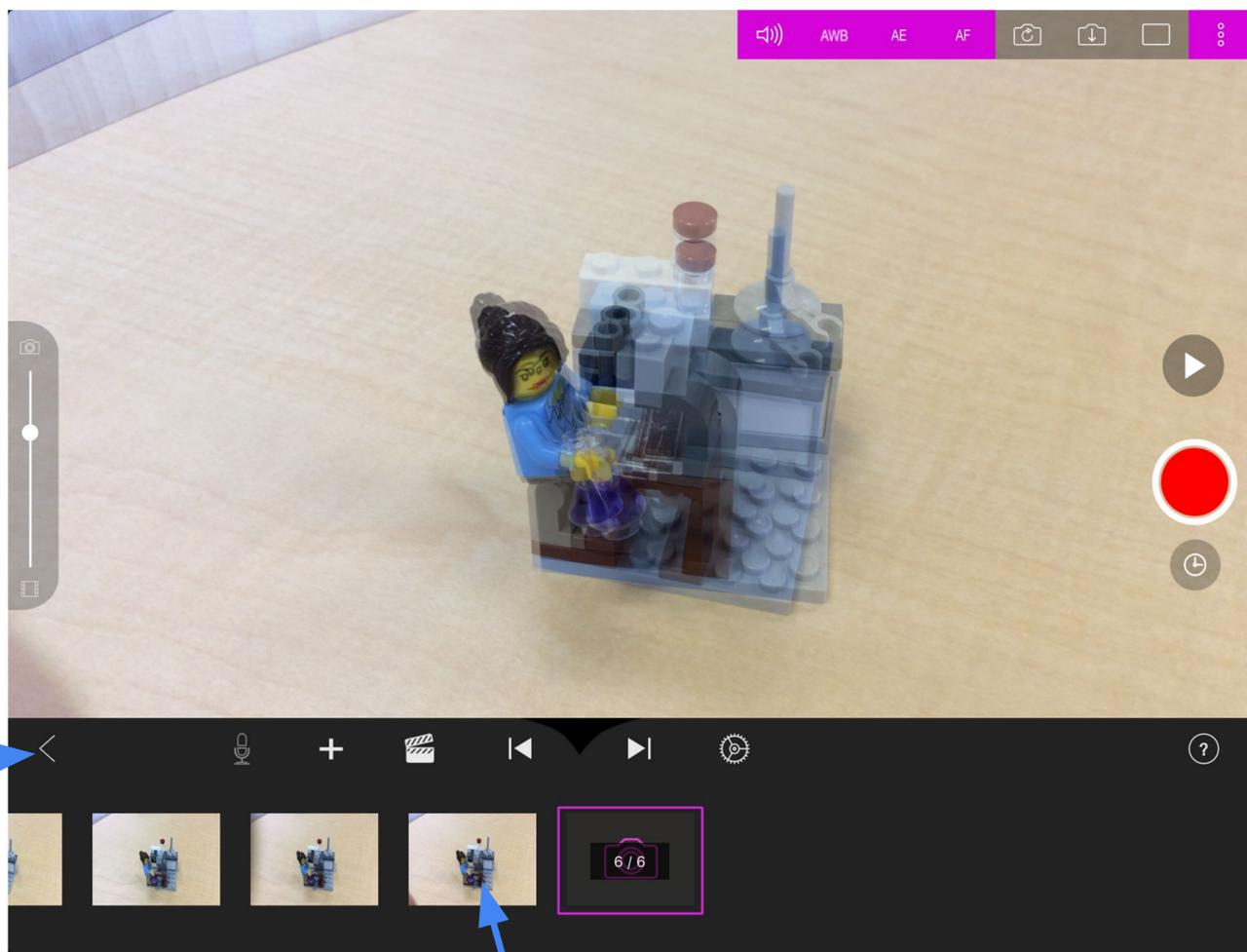
Playback

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.



Go back to projects start page to export your video

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

Selfie Corner

Take a minute to share what...



Surprised you!

Excited you!

Scared you!

Perplexed you!

Inspired you!

Be sure to include

#tcea2018

@STEAMatHP

@LesleySTEAM