

# CHALLENGE 1: Stop Motion

Stop motion is an animated filmmaking technique in which objects are physically manipulated in small increments between individually photographed frames so that they will appear to exhibit independent motion or change when the series of frames is played back.

Some of your favorite movies may even be a stop motion. Movies like: The Nightmare Before Christmas, The Lego Movie, Coraline, The Boxtrolls and many more!

## MATERIALS

A device to take pictures with (Camera, smart phone, or tablet)

*Stop Motion Studio App*

Stop Motion filter effect on TikTok

Tripod (optional)

Objects to move in your stop motion ex: toys, paper cutouts, clay animations

## EXAMPLES



SCREEN SHOT FROM *ALL ABOUT STOP MOTION*  
BY STEVEN TOPHAM



COURTESY OF EDUCATION DEPARTMENT

## STEPS

### Vocab

- **Stop Motion** - a cinematographic technique whereby the camera is repeatedly stopped and started, for example to give animated figures the impression of movement.
- **Animation** - the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the movie is shown as a sequence.

## Shoot

- Save the filter “Stop Motion” on TikTok
- You will see a moving banana with instruction on how to use the filter
- Set up your scene. I suggest moving just one object to start, like a small toy
- Click start on your screen and tap once to take a picture
- Move your toy only a small movement and tap to take another picture
- Take at least 20 images of your toy moving across your screen
- Then click the red record button to see your animation!

## Tips

- Keep your phone in the same spot! This can be hard if you have shaking hands, or if you are also the person moving the toy. If you have a phone mount or tripod that will help a lot.
- Every time you take a picture you will see a “shadow” of the last image you took. This is to help you remember where the toy was and how much to move it.
- As you get better, take more pictures with smaller movements. This will make your final video look more seamless.

## SHARE

Upload your photos and tag MOPA on Instagram @MOPASD or make a stop motion video and tag us on TikTok @MOPA\_SD

## CHALLENGE 2: Freeze Motion

If you have ever played freeze dance before you know how hard it is to stop in the middle of a dance move. Freezing motion can capture finer detail that has never been seen before! High speed photography lets us see the details of a balloon bursting, or what a bird looks like mid flight. Taking a jumping portrait changes forces you to switch up your typical pose and shows us a new dimension of your personality. Freezing motion lets us see the world in new ways!

## MATERIALS

A device to take pictures with (Camera, smart phone, or tablet)

A friend or family member to take pictures of jumping

Non breakable objects to throw in the air

## EXAMPLES



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PHILIPPE HALSMAN, *DALI ATOMICUS*

## STEPS

### Vocab

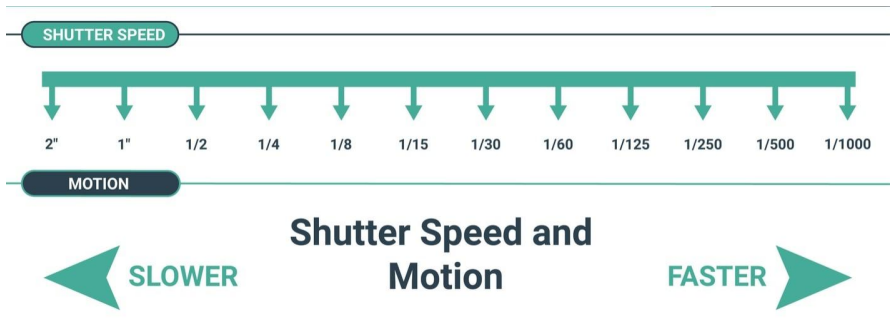
- **Shutter Speed** - the time for which a shutter is open at a given setting.
- **Burst Mode** - In burst mode, the photographer captures several photos in quick succession by either pressing the shutter button or holding it down.

### Shoot

- Test out Burst Mode on your phone. This will allow you to take a lot of images very quickly.
- If you have updated your apple device to IOS14, you have to change your camera settings to "Use volume up for burst mode"
- Have a friend or family member jump for you. Tell them to count when they are ready to jump and start taking burst photos on 2. You will have lots of photos to choose from and hopefully you will get one of them off the ground.
- Test out dropping things in a small bucket of water. The splashes it creates will make a really fun image.

### Tips

- Go outside! The more light you have the easier it will be to freeze motion
- If you have the ability to change your shutter speed, change your shutter speed to a fast as your camera will allow.
- Freezing motion takes a lot of practice. If you are taking pictures of butterflies, or birds be patient. It will take many tries to get the perfect shot.



**SHARE**

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