

Photo Challenge 4

Long-Exposure

The Challenge:

Use long-exposure photography to
paint with light

Learning Targets:

- I can determine the shutter speed I need for long exposure photography
- I can use a long exposure to paint with light in 5 different photos

Shutter Speed



1/500



1/250



1/125



1/60



1/30



1/15



1/8



1/4



1/2

Setting a **fast** shutter speed lets **less** light onto our camera's film or sensor. On the other hand, setting a **slow** shutter speed lets **more** light into the camera's sensor.

A **fast** shutter speed will "**freeze**" fast-moving objects, while a **slow** shutter speed will capture **motion blur**.



Fast



Slow

Long Exposure Photography

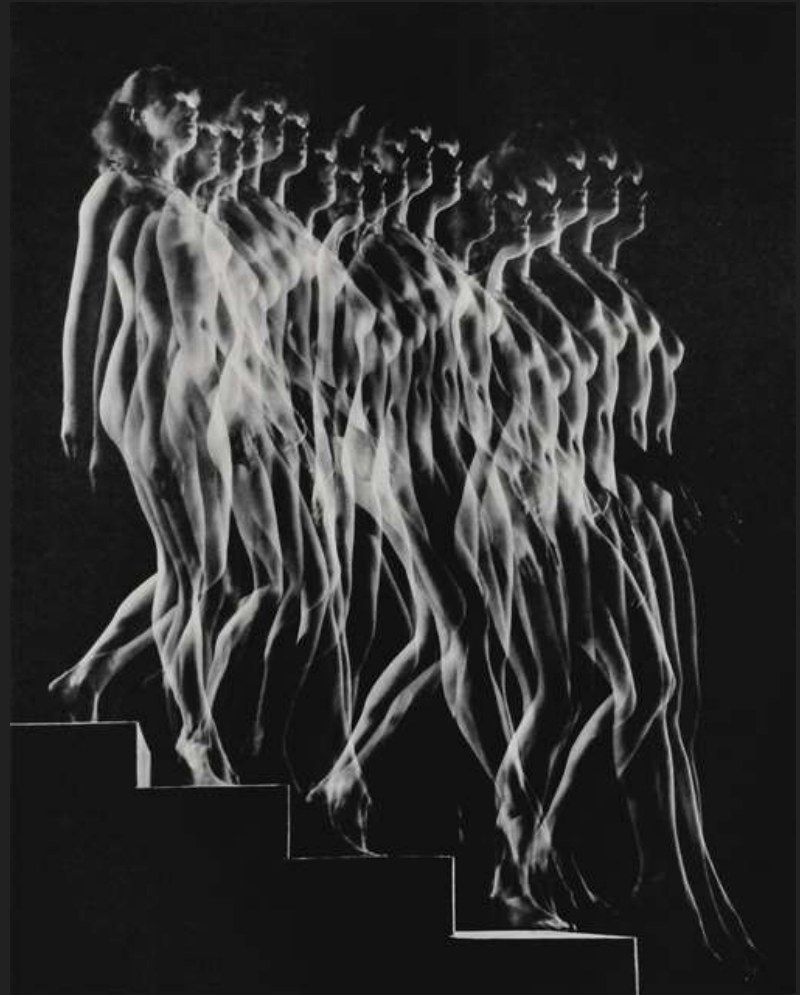
Long-exposure, or slow-shutter photography, involves using a long-duration shutter speed to sharply capture the stationary elements of images while blurring, smearing, or obscuring the moving elements.





Featured Artist: Gjon Mili

Mili was a pioneer in the portrayal of movement in photography. Not only did his engineering of photographic lighting tools and techniques in the 1930s change the possibilities for depicting movement, but his photographs themselves altered the public's understanding of motion in general.









Everything
**YOU NEED TO
KNOW ABOUT
LIGHT
PAINTING**

Student Examples:



Asia Peterson+Emma Jacobson; Cameron Ruiz

LIGHT PAINTING

SETUP AND INSTRUCTIONS

CAMERA SETUP:

Mode dial: M

ISO: 100

Aperture: f/11

Photo too bright? Raise the f/stop

Photo too dark? Lower the f/stop

Shutter speed: 4" to Bulb

Put camera on tripod

FOCUS SETUP:

Shine light on your subject

Focus the camera

Turn auto focus off

Turn lights off

Directions:

Work in pairs or small groups. Make sure everyone has a chance to shoot.

Upload 5 edited photos to Google Classroom as a JPEG. You may need to adjust brightness/contrast, hue/saturation, remove backgrounds, or crop your images.

Try:

- Drawing a picture
- Creating depth by moving the light towards the camera
- Adjusting your shutter speed
- Showing someone interacting with the light