

2020 Unit 5 How to use a camera

Content Area: **21st Century Life & Careers**
Course(s): **Generic Course**
Time Period: **Generic Time Period**
Length: **Weeks**
Status: **Published**

Unit Introduction

This unit will give students an understanding of how to use a camera. We will cover different camera types from the very basic, to the complex. We will include studio setup with different lighting techniques, as well as use of the dark room for film development and use of enlargers.

Standards

9.3.12.AR-PRT.2	Demonstrate the production of various print, multimedia or digital media products.
12.9.3.ST.6	Demonstrate technical skills needed in a chosen STEM field.
12.9.3.ST-ET.3	Apply processes and concepts for the use of technological tools in STEM.
9-12.HS-PS4-5.2.1	Systems can be designed to cause a desired effect.
TECH.8.1.12.A.CS1	Understand and use technology systems.
TECH.8.2.12.D.CS2	Use and maintain technological products and systems.

Essential Questions

How do we maintain a safe working environment?

How to setup a camera.

How does one understand the function and use of equipment and concepts as they apply to photography?

How can one cultivate personal interest and appreciation of photography and Graphic Arts and strengthen consumer decisions?

Content / Skills

CONTENT

- - Photography concepts
 - How does a camera work

- Controlling exposure, $E=I \times T$
- Developing film.
- Chemical usage to develop film and paper
- Composition of a good negative
- Contact prints
- Parts of Enlarger
- Proper exposure
- Enlargements

SKILLS

- Use the darkroom and its equipment
- Design and creation of photograms
- Construction of a pinhole camera
- Develop paper negatives
- Expose and develop a positive image from a paper negative
- Proper use of 35mm cameras
- Demonstrate developing film
- Demonstrate how to make contact prints
- Produce test strips and analyze correct exposure time
- Create enlargements for assignments