

Unit 06: The Camera and How to Use It

Content Area: **Music**
Course(s):
Time Period: **Marking Period 1**
Length: **Ongoing**
Status: **Published**

Brief Summary of Unit

Students will understand the use of the camera and the technical equipment used to shoot a film or video. Students will understand the basic functions of a camera and be able to manipulate the features of digital video equipment to create highly controlled images.

Transfer

Essential Questions

- • How can you use a camera to convey a visual story?
- • What are the controls used on a camera?
- • What is a digital video camera?

Essential Understandings

- • a zoom can bring an object closer or farther away in a viewer.
- • creative framing of a subject provides individuality in a project.
- • each camera has unique functions.
- • each camera mount and movement has a desired compositional element.
- • the digital camera is the primary tool in bringing images to the screen.
- • using "B" roll provides important coverage in all types of narrative and documentary projects.
- • what you put into the frame (actors, props, furniture, etc) tells a story.
- • whenever possible keep the camera still unless for a desired effect.

Students Will Know

- • how do you white balance a camera.
- • how to create mood control of exposure.
- • how to use a digital video camera.
- • how to use basic camera techniques.
- • how to use the exposure controls.

- • how to use the zoom or digital zoom lens.
- • the components of a tripod and how to use it.
- • the features and controls of a digital video camera.
- • the various jobs of a camera team.
- • time codes and shutter speeds.
- • what a “B” roll is.
- • what is a handheld camera.

Students Will Be Skilled At

Evidence/Performance Tasks

- • complete a graphic organizer detailing the features and controls of a digital video camera.
- • compose three pictures that demonstrate change in a person using the still feature on a video camera and complete a graphic organizer detailing the changes.
- • demonstrate knowledge of auto and manual control of the camera by shooting 2 versions of a scene, one with auto on and one with it off.
- • demonstrate knowledge of exposure and f- stops by looking through a still camera while changing the f-stop and document the differences.
- • demonstrate knowledge of fast, slow and jerky zooms and how the auto focus works using the digital camera and discuss.
- • demonstrate knowledge of framing by composing and shooting 3 staged scenes.
- • demonstrate knowledge of tape loading by loading a mini DV tape.
- • identify camera terminology by completing a quiz.
- • preview the essential questions and connect to learning throughout the year.
- • write an analysis of camera movements in a television show and how they affect the message.

Learning Plan

- • Analysis of camera movements.
- • Complete a graphic organizer detailing six separate camera tests including the use of different exposures, the time code indicator, depths of field, handheld shots, tripod shots and dolly shots.
- • Demonstration of the basic functions and types of cameras.
- • Discuss and reflect on essential questions through discussion and writing in their Film Production Journal.
- • Discussions and worksheet on how digital images are created.
- • Ongoing practice with camera, sound and lighting equipment.
- • Practice camera movements and explain the differences.
- • Practice mounting cameras on various camera mounts and tripods.

- • Students will examine and complete a graphic organizer on the components of a camera.
- • Students will practice with cameras shooting six test shots using a tripod.
- • Work with teams in shooting video for video projects.

Materials

Suggested Strategies for Modifications
