

# Unit 10: The Principles of Lighting for Film and Video

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

## Brief Summary of Unit

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Students will learn the basic principles of lighting and how to create three (3) point lighting for their film sequences. They will learn how to set-up lighting equipment, run cable, know the electric wattage of lamps and the power capability of circuits on locations and the safety rules needed when working with lighting equipment. Students will use the *Lowell 3-point lighting kit* during the production of various projects.

## Transfer

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## Essential Questions

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- • What is film/video lighting?
- • What is the equipment used to produce film lighting?

## Essential Understandings

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- • creating light for film or video can be done through the process of adding necessary light.
- • creative bounce lighting can be used to create 3 pointing lighting on an exterior location.
- • knowing proper exposures can improve the look of the video.
- • knowing what light instrument to use or not use helps in setting the right mood.
- • lighting can be highly stylized or straight forward based on the subject and mood of the piece being shot.
- • lighting can enhance an otherwise ordinary shot.
- • lighting is a way to visually express their artistic impressions through a continual observation of their environment.
- • lighting is a way to create mood and style within the frame.
- • lowering the key light can create expressive facial lighting for interviews.

## Students Will Know

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- • how to analyze a scene and set lights.
- • how to create contrast when shooting.

- • how to determine wattage and circuit restrictions.
- • how to perform white balancing.
- • how to set lighting for both color and B&W video.
- • how to set lights for multiple shooting environments.
- • how to set low and high key lighting.
- • how to set up and arrange lighting instruments safely.
- • how to set your subject using exterior light for interior shots.
- • how to set-up key, back and hair lighting.
- • how to use filters and when to use them.
- • how to use filters.
- • how to use front and back lighting for effect.
- • how to use front and back lighting for effect.
- • how to use reflective lighting on exterior locations.
- • what hit and run lighting is and how to create good lighting within time constraints.
- • what lighting you need for an interview video.
- • when and how to use hard and soft light.

## **Students Will Be Skilled At**

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## **Evidence/Performance Tasks**

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- • demonstrate knowledge of lighting placement by drawing a diagram for their mood lighting assignment.
- • demonstrate knowledge of lighting through the use of light in all their projects.
- • demonstrate the differences between low key and high key lighting in student project.
- • demonstrate their knowledge of exterior lighting by setting up a three point bounce lighting test using reflectors they have constructed.
- • demonstrate their knowledge of filters and how to use them.
- • demonstrate their knowledge of how to hang and focus a light through practical application in project.
- • demonstrate their knowledge of lighting by creating lighting for an interview video.
- • demonstrate understanding of three point lighting by viewing and analyzing stills and then duplicating a scene from a film using three point lighting.
- • research a famous artist and their and paintings and describe the lighting in visual terms using a graphic organizer.
- • using three-point lighting, analyze a provided scene and create a lighting design that will demonstrate a mood.
- • view various films from different periods and analyze the lighting used in a specific scene using a film viewing guide.

## **Learning Plan**

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- • Conduct peer reviews on lighting techniques and discuss the technical means that produce the desired effect.
- • Conduct safety lessons on the use of lighting and electricity.
- • Demonstrate and provide lessons on lighting instruments and how to use them.
- • Perform various exposure and lighting tests.
- • Preview the essential questions and create a Film Production Journal that will follow students throughout the course.
- • Provide a lesson on how to hang and focus a light.
- • Set lights to light a bowl of fruit or plaster bust of a person.
- • Shoot contrast tests setting up a key and fill light and adjust the exposure ratios for 6 shots and slate for reference.
- • Use lighting in their ongoing projects.
- • View artists and artwork to understand the idea of natural light.
- • View Psycho and duplicate the motel entrance scene.

## **Materials**

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## **Suggested Strategies for Modifications**

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