

Unit Focus

Students will learn the proper techniques to capture high quality, external microphone audio during production, and the concepts required to operate a Digital Single Reflex Camera (DSLR Camera). The PBA will have students imagine and create a video that conveys a metaphorical idea.

Stage 1: Desired Results - Key Understandings

Established Goals	Transfer	
<p>Connecticut Goals and Standards <i>Technology Education (CTE)</i></p> <ul style="list-style-type: none"> Describe, plan the use of, and apply 3-point lighting, source light, white balance, scrims, and reflectors using the appropriate techniques. <i>TE.DV.D.14</i> Describe the various types of sound equipment and techniques used with handheld, lavalier, shot gun, condenser, omni and directional methods. <i>TE.DV.D.15</i> Describe white balance, iris, aperture, auto and manual focus, audio settings, and levels in camera operations. <i>TE.DV.E.18</i> Edit and finalize images and video for rough cut, transitions, color correction, keying, and pacing with nonlinear software. <i>TE.DV.F.25</i> Edit audio for voice over, sound levels, music, and sound effects with application software. <i>TE.DV.F.26</i> <p>Student Growth and Development 21st Century Capacities Matrix <i>Creative Thinking</i></p> <ul style="list-style-type: none"> Imagining: Students will be able to conceive of a novel approach to create a text, performance, solution, application, or inquiry. <i>MM.2.2</i> <p><i>Collaboration/Communication</i></p> <ul style="list-style-type: none"> Product Creation: Students will be able to effectively use a medium to communicate important information (findings, ideas, feelings, issues, etc.) for a given purpose. <i>MM.3.2</i> 	<p>T1 Communicate effectively based on purpose, task, and audience using appropriate vocabulary. T2 Explore and hone techniques, skills, methods, and processes to create a metaphor</p>	
	Meaning	
	Understandings	Essential Questions
	<p>U1 Powerful messages are grounded in emotions and showcase the depth, significance, and/or complexity of the problem/topic. U2 Advanced video production requires a thorough attention to the complex technical and intellectual content details in taking a tangible idea and turning it into an intangible life message (metaphorical).</p>	<p>Q1 What is the message I'm trying to communicate? Q2 How will the audience understand what I'm trying to say? Q3 How do I precisely capture a moment?</p>
	Acquisition of Knowledge and Skill	
	Knowledge	Skills
<p>K1 Capturing Audio</p> <ul style="list-style-type: none"> External Microphones Microphone Types: Shotgun, Dynamic, Lavalier Pickup Patterns Camera Audio Input Meters/Decibels Conversation Sequence Project <p>K2 DSLR Camera Settings</p> <ul style="list-style-type: none"> Focal Length 	<p>S1 Convey a complex message (Metaphor) S2 Production: Capture high quality, close proximity audio S3 Post Production: Utilize editing software to hone message S4 Combine audio and production techniques to enable audio overlapping. S5 Production: Manipulate the complex features of a DSLR camera in capturing quality video.</p>	

Stage 1: Desired Results - Key Understandings

- White Balance
- Aperture
- Shutter Speed
- Frames Per Second
- ISO

K3 Overlapping audio technique includes J edits, L edits and cutaways.

K4 Representational Ideas vs literal ideas

K5 "Green Light" Treatment Process

- Present Ideas to a Small Group for Selection and Approval