Introduction to TV Studio Unit 1: Video Camera and Stabilization Basics

Madison Public Schools

Unit Focus

Students will be introduced to the world of moving pictures and the difference between capturing film and video. They will learn the importance of, and practice, proper camera and tripod setup, shot types and moves, white balance, exposure, and stabilization. Students will learn "how to properly capture a moment" which will act as the foundation for all future video endeavors. A PBA will have students create a reality TV Show introduction.

Stage 1: Desired Results - Key Understandings

Established Goals

Connecticut Goals and Standards

Communications: 12

- Identify types and placement and use of lighting fixtures for various lighting effects. *AVC.03.10*
- Demonstrate lighting techniques used for remote and studio productions. *AVC.03.11*
- Demonstrate operation of communication technology equipment. *AVC.03.12*

Technology Education (CTE)

- Describe, plan the use of, and apply 3-point lighting, source light, white balance, scrims, and reflectors using the appropriate techniques. *TE.DV.D.14*
- Describe white balance, iris, aperture, auto and manual focus, audio settings, and levels in camera operations. *TE.DV.E.18*
- Describe and apply import, file, and asset management. *TE.DV.F.24*
- Edit and finalize images and video for rough cut, transitions, color correction, keying, and pacing with nonlinear software. *TE.DV.F.25*
- Edit audio for voice over, sound levels, music, and sound effects with application software. *TE.DV.F.26*

Student Growth and Development 21st Century Capacities Matrix

Creative Thinking

- Imagining: Students will be able to conceive of a novel approach to create a text, performance, solution, application, or inquiry. *MM.2.2*

Collaboration/Communication

- Product Creation: Students will be able to effectively use a medium to communicate important information (findings, ideas, feelings, issues, etc.) for a given purpose. *MM.3.2*

Transfer

T1 Explore and hone techniques, skills, methods, and processes to create and innovate their own video productions.

Meaning

Understandings	Essential Questions
U1 Successful video production requires a thorough attention to the complex details of capturing a moment: color, exposure, focus adjustments as well as camera stabilization.	**Q1** How do I effectively capture a moment?

Acquisition of Knowledge and Skill

Knowledge	Skills
K1 Camera Settings: White Balance/Kelvin Scale Additive Color System Manual Focus Manual Exposure **K2** Shot Types: Long, Medium, Close Shots, Dutch Angle Selective Focus Shot Moves Pan, Tilt, Truck, Dolly, Pedestal, Boom Zoom **K3** Basic Camera Stabilization: Tripod Operation Shoulder Mounts	**S1** Capture properly colored, focused, stabilized and framed video shots. **S2** Manipulate the camera to create smooth pans, tilts, dollies, trucks and pedestals. **S3** Evaluate the quality of video-graphic choices in a range of professional examples.