

# Unit 1

Content Area: **Fine & Performing Arts**  
Course(s):  
Time Period: **Semester 1**  
Length: **2 weeks**  
Status: **Published**

## Standards

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VPA.1.1.12	All students will demonstrate an understanding of the elements and principles that govern the creation of works of art in dance, music, theatre, and visual art.
VPA.1.1.12.D.1	Distinguish innovative applications of the elements of art and principles of design in visual artworks from diverse cultural perspectives and identify specific cross-cultural themes.
VPA.1.2.12	All students will understand the role, development, and influence of the arts throughout history and across cultures.
VPA.1.2.12.A.1	Determine how dance, music, theatre, and visual art have influenced world cultures throughout history.
VPA.1.2.12.A.2	Justify the impact of innovations in the arts (e.g., the availability of music online) on societal norms and habits of mind in various historical eras.
VPA.1.3.12.D	Visual Art
VPA.1.3.12.D.2	Produce an original body of artwork in one or more art mediums that demonstrates mastery of visual literacy, methods, techniques, and cultural understanding.
VPA.1.4.12	All students will demonstrate and apply an understanding of arts philosophies, judgment, and analysis to works of art in dance, music, theatre, and visual art.
VPA.1.4.12.B.2	Evaluate how an artist's technical proficiency may affect the creation or presentation of a work of art, as well as how the context in which a work is performed or shown may impact perceptions of its significance/meaning.

## Essential Questions

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- What is the Phi Phenomenon?
- Who is Muybridge?
- How does a themotrope work and what does it demonstrate?
- How does Frame-by-frame animation work?

## Content / Skills

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Students will be able to design an animation according to the Elements and Principles of design

- develop a frame-by-frame flipbook animation
- create a themotrope to demonstrate the Phi Phenomenon
- Understand the importance of Muybridge's experiments and why we use 24 frames per second as our industry standard

## **Instructional Plan (Daily Learning Activities)**

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Class 1- A brief history presentation on how Muybridge developed the motion picture.

- Students will demonstrate the Phi Phenomenon by creating their own two frame animation.
- The class will use their computers to Google image search Muybridge Spread Sheets

## **Monitoring Strategies / Assessment of Learning**

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- Every student will complete a two-frame animation by drawing a picture on one side of a piece of paper and drawing a related image on opposite side. When the paper is spun the sequential pictures will demonstrate the Phi Phenomenon. Giving the students a physical representation of this visional phenomenon will give the students a better understanding of how animation works.
- Students will then spend class time using Photoshop to separate their Muybridge Spread Sheets into individual images. A folder with their 24 separated images will be turned in at the end of the class period. It's important for the students to save their individual images with the Save For Web option in Photoshop
- A finished 24 frame Muybridge animation will be completed by every student and turned in properly to the class Group Folder to be evaluated

## **Differentiation**

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- Alternative Assessments
- Choice of Activities
- Independent Research and Projects
- Leveled Rubrics

## **Integration of Technology**

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TECH.8.1.12.A.1	Create a personal digital portfolio which reflects personal and academic interests, achievements, and career aspirations by using a variety of digital tools and resources.
TECH.8.1.12.A.2	Produce and edit a multi-page digital document for a commercial or professional audience and present it to peers and/or professionals in that related area for review.
TECH.8.1.12.B.2	Apply previous content knowledge by creating and piloting a digital learning game or tutorial.
TECH.8.1.12.C.1	Develop an innovative solution to a real world problem or issue in collaboration with peers and experts, and present ideas for feedback through social media or in an online community.
TECH.8.1.12.D.5	Analyze the capabilities and limitations of current and emerging technology resources and assess their potential to address personal, social, lifelong learning, and career needs.

TECH.8.1.12.E.1	Produce a position statement about a real world problem by developing a systematic plan of investigation with peers and experts synthesizing information from multiple sources.
TECH.8.1.12.E.2	Research and evaluate the impact on society of the unethical use of digital tools and present your research to peers.
TECH.8.1.12.F.1	Evaluate the strengths and limitations of emerging technologies and their impact on educational, career, personal and or social needs.
TECH.8.2.12.B.4	Investigate a technology used in a given period of history, e.g., stone age, industrial revolution or information age, and identify their impact and how they may have changed to meet human needs and wants.
TECH.8.2.12.C.2	Analyze a product and how it has changed or might change over time to meet human needs and wants.
TECH.8.2.12.C.6	Research an existing product, reverse engineer and redesign it to improve form and function.
TECH.8.2.12.C.7	Use a design process to devise a technological product or system that addresses a global problem, provide research, identify trade-offs and constraints, and document the process through drawings that include data and materials.
TECH.8.2.12.D.3	Determine and use the appropriate resources (e.g., CNC (Computer Numerical Control) equipment, 3D printers, CAD software) in the design, development and creation of a technological product or system.
TECH.8.2.12.D.5	Explain how material processing impacts the quality of engineered and fabricated products.
TECH.8.2.12.E.3	Use a programming language to solve problems or accomplish a task (e.g., robotic functions, website designs, applications, and games).
TECH.8.2.12.E.4	Use appropriate terms in conversation (e.g., troubleshooting, peripherals, diagnostic software, GUI, abstraction, variables, data types and conditional statements).

## 21st Century

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### 21st Century Themes

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- Business, Financial, Economic, and Entrepreneurial Literacy
- Global Perspectives

### 21st Century Skills

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- Communication and Collaboration
- Creativity and Innovation
- Critical Thinking and Problem Solving
- Information Literacy
- Life and Career Skills
- Media Literacy

## **Interdisciplinary Connections**

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- Art
- Business
- Computers
- English
- Science
- Social Studies