

# Light and Shadow

Name \_\_\_\_\_ Section \_\_\_\_\_ date due \_\_\_\_\_

## Study Guide 2019-2020 Video I Tohatchi HS K Sari

NM Soc. SB1-C Renaissance, PES1VPS1,2,3, CTE S2 CS1S2.2sB.1.1, CCTE Communication

Directions: Read Light and shadow then number each blank space and analyze the study guide. Write the correct answer using the word key.

The earliest projection of light created by man may have been on the wall of a \_\_\_\_\_ 30,000 years ago. A small opening in a dark space creates what is known as the \_\_\_\_\_ affect. Images from outside the cave are refracted and focused in reverse or upside down on a wall or ceiling. This was documented by the Chinese \_\_\_\_\_ years ago. The Italian \_\_\_\_\_ fixed a lens in the hole 5 \_\_\_\_\_ later. In the \_\_\_\_\_ century mirrors were used to turn the image right side up. The ancient \_\_\_\_\_ puppets of Java spread across Europe and were exhibited at the Chicago \_\_\_\_\_ in 1893.

\_\_\_\_\_ The earliest movie projectors were called \_\_\_\_\_. They were invented by the Dutch scientist \_\_\_\_\_. The strips of painted \_\_\_\_\_ were inserted upside down. Triple Lanterns or \_\_\_\_\_ were popular in the 19th century and light shows were called \_\_\_\_\_ Shows.

Use a character from your story board and draw then cut out a shadow puppet, then present to the class. Use the Team Rubric. Draw your character below. **Project Grade 100 points.**

Word Key

- |                             |                   |
|-----------------------------|-------------------|
| 1. Centuries                | 7. Magic Lanterns |
| <b>2. Christian Huygens</b> | 8. Pinhole        |
| 3. Glass                    | 9. 1,000          |
| 4. Peep                     | 10. Cave          |
| <b>5. Girolamo Cardano</b>  | 11. World Fair    |
| 6. 16th                     | 12. Triunials     |

# Whirling Wheels

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A movie is not a continuous image. It is thousands of \_\_\_\_\_. The illusion works because our \_\_\_\_\_ need time to process each picture. In 1765 Frenchmen \_\_\_\_\_ whirled hot coal around to produce a ring of fire. \_\_\_\_\_ were later invented using his idea. These toys were called \_\_\_\_\_. Later in \_\_\_\_\_ it was known as the Fantoscope.

The Fantoscope was also shaped like a \_\_\_\_\_. A slot in a box allowed the viewer to see a small section of the disk as it was \_\_\_\_\_.

The \_\_\_\_\_ appeared in 1826 and spun around using a string. French inventor \_\_\_\_\_ was a pioneer in \_\_\_\_\_. He was born in \_\_\_\_\_, he developed the \_\_\_\_\_.

He later built the first projector for motion pictures. The praxinoscope was a huge \_\_\_\_\_. Each changeable paper strip had a sequence of \_\_\_\_\_ pictures. This device was made of a \_\_\_\_\_, a drum with interchangeable paper strips and a mini theater in a \_\_\_\_\_.

Create your own **thaumatrope** using a character from your movie, cardboard, string or rubber bands and scissors. **Project Grade 100 points.**

- |                      |                          |
|----------------------|--------------------------|
| 1. Phenakistoscopes  | 10. Box                  |
| 2. Britain           |                          |
| 3. lamp              | 11. Praxinoscope         |
| 4. Animation         | 12. <b>Emile Reynaud</b> |
| 5. Chevalier d, Arcy | 13. success              |
| 6. Eyes              | 14. spinning             |
| 7. still images      | 15. Toys                 |
| 8. Disk              | 16. Thaumatrope          |
| 9. 12                |                          |

## Snapping Shutters

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The first fast moving object captured on film in \_\_\_\_\_ was a \_\_\_\_\_ named Occident. 50 years earlier the French Photographer Nicephore Neipce had invented photography. In 1838 the \_\_\_\_\_ time was so long that \_\_\_\_\_ people could not be photographed. Exposure time means how long the \_\_\_\_\_ sensitive plate inside a dark box is exposed to light to capture the image. The first projector looked more like a \_\_\_\_\_ than a camera. The \_\_\_\_\_ acted like a shutter button. This first crude projector was built by \_\_\_\_\_ . It had a \_\_\_\_\_ that opened and closed fast enough to freeze the fast moving feet of Occident.

\_\_\_\_\_ years later the first true movies were made in 1885. **Etienne Jules Muray** used series of photos to study \_\_\_\_\_ and \_\_\_\_\_. Muray photographed 12 images of a bird in flight and each exposure was \_\_\_\_\_ of a second long. A wide, cylinder shaped, container held the light sensitive \_\_\_\_\_ plates.

Draw and label the first projector on a large poster paper.

1. **Eadweard Muybridge**

2. trigger

3. bones

4. light

5. 1/720

6. Glass

7. moving

8. racehorse

9. exposure

10. 1878

11. rifle

12. birds

## On the Move

name \_\_\_\_\_ Section \_\_\_\_\_ date due \_\_\_\_\_

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**Muybridge** worked as a scenic photographer in the \_\_\_\_\_ USA. He published a book in 1887 which contained \_\_\_\_\_ photos titled \_\_\_\_\_ . The levered \_\_\_\_\_ was patented in 1896. Etienne Marley created the \_\_\_\_\_ using a small disk because a bigger camera created technical problems. The most successful viewer was the \_\_\_\_\_ , Invented by \_\_\_\_\_ in \_\_\_\_\_. The Mutoscope was \_\_\_\_\_ operated. The viewer had to turn a \_\_\_\_\_ to move the images. The Mutoscope could only be seen by one person at a time. The first films were produced by Louis Le Prince using paper in 1888. The first flexible films were 35 mm and invented by \_\_\_\_\_ in 1889. \_\_\_\_\_ invented the first film that was \_\_\_\_\_ frames per second. They were shown in Arcades called \_\_\_\_\_ .

Create a **filoscope** using a pen, glue and card stock that is 4X6 inches. **Project Grade 100 points.**

1. **George Eastmen**
2. Mutoscope
3. Move
4. Animal Locomotion
5. 1894
6. coin
7. 24
8. **Herman Casler**
9. Filoscope
10. Western
11. minima
12. 20,000
13. Film in
14. **William Dickson**
15. Nickleodeons

