

Name: \_\_\_\_\_

Pd: \_\_\_\_\_

Date: \_\_\_\_\_

## HOW MOVIES GOT THEIR START

### I. OPTICS + CHEMISTRY = PHOTOGRAPHY

#### NAME BANK

Johann Heinrich Shultze

Aristotle

Louis Jacques Daguerre

George Eastman

Joseph Nicephore Niepce

- 1) A 2,000 year-old concept that was known by \_\_\_\_\_ is demonstrated by the Camera Obscura, which literally (in Latin) means "dark room" and replicates how images appear on your eye's retina: *When light travels in a straight line and reflects off a bright object on its way into a small hole, an upside-down image of the object appears on a flat, parallel surface.*
- 2) In 1725, a German professor named \_\_\_\_\_ discovered that silver nitrate turned black when it was exposed to sunlight.
- 3) In 1827, the first surviving photograph was taken by \_\_\_\_\_. He coated a pewter plate with bitumen and exposed it to light.
- 4) In 1839, his one-time partner named \_\_\_\_\_ formed a better process and produced "The Daguerreotype."
- 5) In 1888, the founder of the Kodak company \_\_\_\_\_ introduced a smaller camera that used film on a roll. As a result, photography became available to everyone.

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### II. MOVING IMAGE MACHINES

#### WORD BANK

Persistence of Vision  
thaumatrope  
phenakistoscope  
praxinoscope  
zoetrope

- 1) Around 130 A.D. a Greek astronomer named Ptolemy discovered a principle now called \_\_\_\_\_.
- 2) A paper published in 1824 by Peter Mark Roget (the same person responsible for the first thesaurus) brought the "Persistence of Vision" theory again to the public mind and soon after the \_\_\_\_\_, a two-sided spinning illusion, was created.
- 3) A physicist named Joseph Plateau invented the \_\_\_\_\_, a slotted disc with a series of pictures that spun on a handle.
- 4) The \_\_\_\_\_, a slotted spinning wheel with a series of pictures, was invented by William George Horner in 1834 and renamed by French inventor Pierre Desvignes who used the Greek words for "life" and "something that turns."
- 5) French inventor and animation pioneer Emile Reynaud created the \_\_\_\_\_, similar to the zoetrope, but instead of slots, it used mirrors and its image appeared to move on a background.