

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

# Light & Shadows

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

## How Do Various Optical Devices Work?



Observe: How Do We Use Light?

### Question

How do we use light?

### Resources

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Access the website links from the online course.

**Note to Parents:** If possible, students should be provided access to some of these devices to have hands-on opportunities to see how light works in them.

- Pinhole Camera (website)
- Kaleidoscope (website)
- Sun-Sensitive Paper (website)
- Microscope (website)
- Camera (website)
- Telescope (website)
- *How Do We Use Light? Organizer*

### Instructions

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- 1 Go to the website associated with each optical device and learn more about how it uses light to work.
  - **Pinhole Camera**
  - **Kaleidoscope**
  - **Sun-Sensitive Paper**
  - **Microscope**
  - **Camera**
  - **Telescope**

- 2 Record the information you learn on the **How Do We Use Light? Organizer** provided on the following page. Much information is available on these websites, but you should focus on general understanding of how light is used in each device.
- 3 If you have access to any of these devices, you should try using them and see if you can determine how light passes through the device.
- 4 Check your answers using the ***Check Your Answers*** on the following webpage in the course content.

| How Do We Use Light? Organizer |  |                                    |
|--------------------------------|--|------------------------------------|
| Optical Device                 | What are the major parts of this device? | What does light do in this device? |
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