

SCIENCE

Name: \_\_\_\_\_ Group: \_\_\_\_\_ Date: \_\_\_\_\_

1  20 Listen and circle *true* or *false*.

- a The Hubble is the largest telescope on Earth.  
1 true      2 false
- b The Hubble is a refracting telescope.  
1 true      2 false
- c Space telescopes capture higher resolution images.  
1 true      2 false
- d The Hubble has captured images of distant galaxies.  
1 true      2 false
- e The Hubble is serviced by astronauts in space.  
1 true      2 false



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2 Read and match.

- |         |   |                |
|---------|---|----------------|
| a _____ | It is an optical instrument similar to a telescope, but designed to be used with both eyes simultaneously.      | 1 telescope    |
| b _____ | It is an optical instrument that uses lenses to focus light and records images on film or an electronic sensor. | 2 binoculars   |
| c _____ | It is the distance from the center of a lens or curved mirror to its focal point.                               | 3 prism        |
| d _____ | It is a triangular piece of glass that bends light beams.   | 4 camera       |
| e _____ | It is an optical instrument used to make distant objects appear nearer.   | 5 focal length |

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3 Read and complete with words from the box.

behind    blurry    focal    nearsightedness    retina  
convex    farsightedness    refract    concave    clearly

In the normal eye, light is focused on the retina.

Astigmatism, myopia (¹ \_\_\_\_\_)

and hyperopia (² \_\_\_\_\_) are

examples of human vision problems. These are

refractive defects since the eyes cannot bend

(³ \_\_\_\_\_) light properly and thus

produce blurred vision. Astigmatism is produced

by deformations of the cornea. These

deformations cause two focal points to

fall in two different locations, making objects at any

distance appear (⁴ \_\_\_\_\_). Astigmatism can

be corrected with contact lenses, eyeglasses or laser

surgery. In myopia, the light entering the eye does not

focus on the retina, but in front of it. Distant objects

cannot be seen (⁵ \_\_\_\_\_), but close objects can. It can be corrected by

lengthening the focal length so that the focal point (focus) falls on the (⁶ \_\_\_\_\_).

This is done with implants, laser or non-laser refractive surgery or (⁷ \_\_\_\_\_)

lenses in eyeglasses or contact lenses. In hyperopia, the light entering the eye does not focus

on the retina, but (⁸ \_\_\_\_\_) it. Close objects cannot be seen clearly, but distant

objects can. It can be corrected by shortening the (⁹ \_\_\_\_\_) length so that the

focal point falls on the retina. This is done with laser or non-laser refractive surgery, or with

(¹⁰ \_\_\_\_\_) lenses in eyeglasses or contact lenses.

