

Worksheet 2 (answer sheet): We build a thermal solar plant – With a magnifying glass and mirror

Task

Below, you will find four comments made in colloquial language. How would a physicist formulate these sentences? Write these sentences into the empty speech bubbles, using the terms from the wordlist to help you.

Wordlist

focal point

focal length

ignition temperature

converge

concave mirror

convex lens

parallel light beams

ray

If I hold a magnifying glass to the sun, a point of light appears behind the lens.

The paper only starts to burn when it is really hot.

There is a fixed distance between the magnifying lens and the light point.

A curved mirror can also produce a point of light.

If I hold a convex lens into the parallel light beams of the sun, the convex lens will converge the rays onto the focal point.

The paper starts to burn as soon as the ignition temperature is reached.

The distance between the convex lens and the focal point is called the focal length.

A concave mirror also has a focal point.

