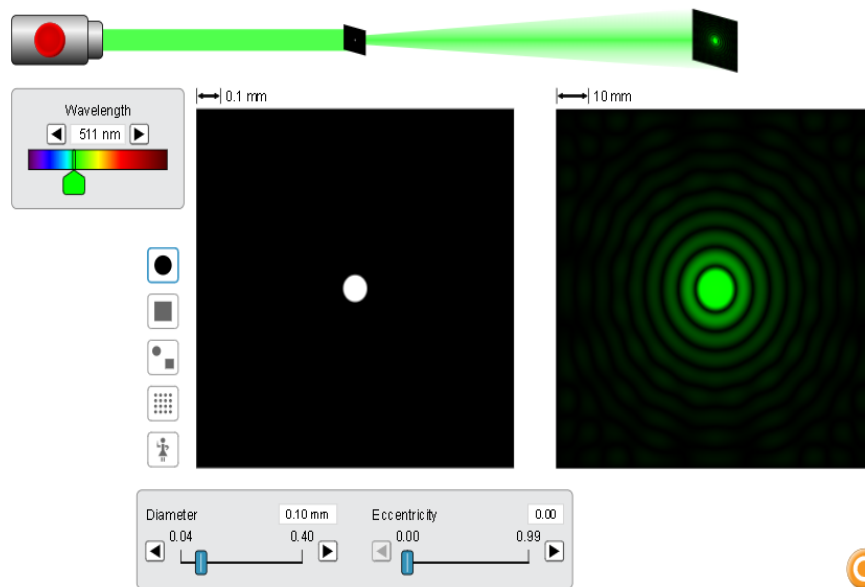


[https://phet.colorado.edu/sims/html/wave-interference/latest/wave-interference\\_en.html](https://phet.colorado.edu/sims/html/wave-interference/latest/wave-interference_en.html)

**Learning Goals:** Students will be able to:

- A. Compare light wave patterns made by light passing through slits to passing through holes.
- B. Explain how the aperture geometry relates to the diffraction pattern.
- C. Predict how changing the wavelength or aperture size affects the diffraction pattern.

**Develop your understanding:** Open the [Diffraction](#) screen, then explore to see what happens to light waves when they pass through different shaped holes.





2. Experiment with other shapes of apertures (holes) to find trends that help to meet these goals:
  - B. Explain how the aperture geometry relates to the diffraction pattern.
  - C. Predict how changing the wavelength or aperture size affects the diffraction pattern.

Write a summary of your understanding and include images for support. (10 pts)

