

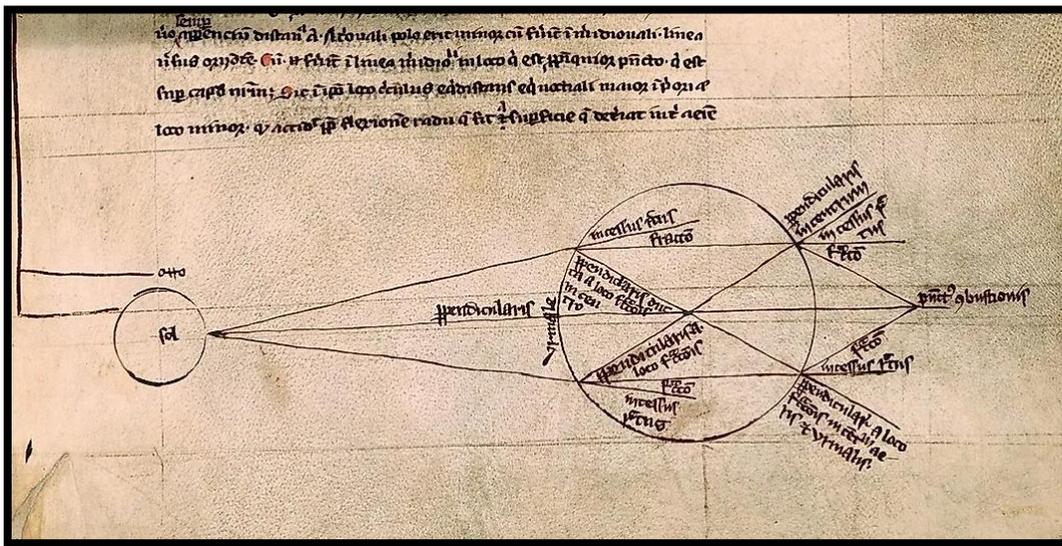
ATRIUM TOUR

OPTICS

His most important mathematical contribution is the application of geometry to optics.

He emphasized the use of lenses for magnification to aid natural vision. He carried out systematic observations with lenses and mirrors.

Bacon is the first to theorize that lenses may have applications in the correction of eyesight, and he is also the first to apply geometry to the study of optics. Bacon postulates that the colors of a rainbow are due to the reflection and refraction of sunlight through individual raindrops.



Bacon's diagram of light being refracted by a spherical container of water

“Mathematics is the door and the key to the sciences.”