

Curriculum Unit Title: Shedding light on art; the use of optics in visual arts

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KEY LEARNING, ENDURING UNDERSTANDING, ETC.

The modern use of optics and multispectral imaging in art conservation. The care and restore of historical works of art

ESSENTIAL QUESTION(S) for the UNIT

How do art conservationists use light in their work?
In what ways does light interact with different materials?
How doe light change a material physically and or chemically?

CONCEPT A

Optics

CONCEPT B

Electromagnetic Spectrum

CONCEPT C

Multispectral Imaging

ESSENTIAL QUESTIONS A

What advantages does the field of optics bring to the work of art conservationist?

ESSENTIAL QUESTIONS B

Visible, non-visible, spectrum, frequency

ESSENTIAL QUESTIONS C

What is multispectral imaging and how is it used?

VOCABULARY A

Light, optics, ray , wave, photon, wavelengh

VOCABULARY B

VOCABULARY C

x-ray, UV, Ultraviolet, Infrared, Imaging, Lense, Camera, conservation

ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES