

Some Resources:

Laser Diffraction:

Measuring width of hair with a laser pointer

<http://stemak.org/sites/default/files/Measuring%20the%20diameter%20of%20a%20hair%20using%20a%20laser.pdf>

Or here:

<http://physicsed.buffalostate.edu/pubs/StudentIndepStudy/EURP09/Young/Young.html#references>

Live Fourier Transform program:

<http://www.lookingatnothing.com/index.php/software> By Brian R. Pauw
http://jcrystal.com/products/fp/FourierPainter_Setup.exe for Windows only

App version (FT of a photo):
2D-Fourier (iPad)

For some great overview videos of crystallography, see:

<http://www.richannel.org/collections/2013/crystallography>

Replicating Rosalind Franklin's Photo 51 with a spring...

<http://pages.iu.edu/~kforinas/P105/PTE000140.pdf>

Speed of Light in a Microwave:

Step by step by Peta Foster, CLF (STFC)

<https://plus.google.com/u/0/photos/+PetaFoster/albums/5723884963967309633/5723884965249427826?pid=5723884965249427826&oid=103374440237412511927>

Measuring speed of light from Moon - Earth communication

<http://scitation.aip.org/content/aapt/journal/tpt/44/7/10.1119/1.2353576>

Herschel's Infra Red Experiment:

Worksheet used:

http://coolcosmos.ipac.caltech.edu/cosmic_classroom/classroom_activities/herschel_experiment2.html

Version with algae showing the absorption of chlorophyll:

See eg. <https://t.co/wsvXxi47nY>

Films of Demos for Science Teachers

<http://alomshaha.com/demo-films/>
www.richannel.org