

# Homework #6: build an spectrograph based on a CD or DVD “grating”: deadline May 18

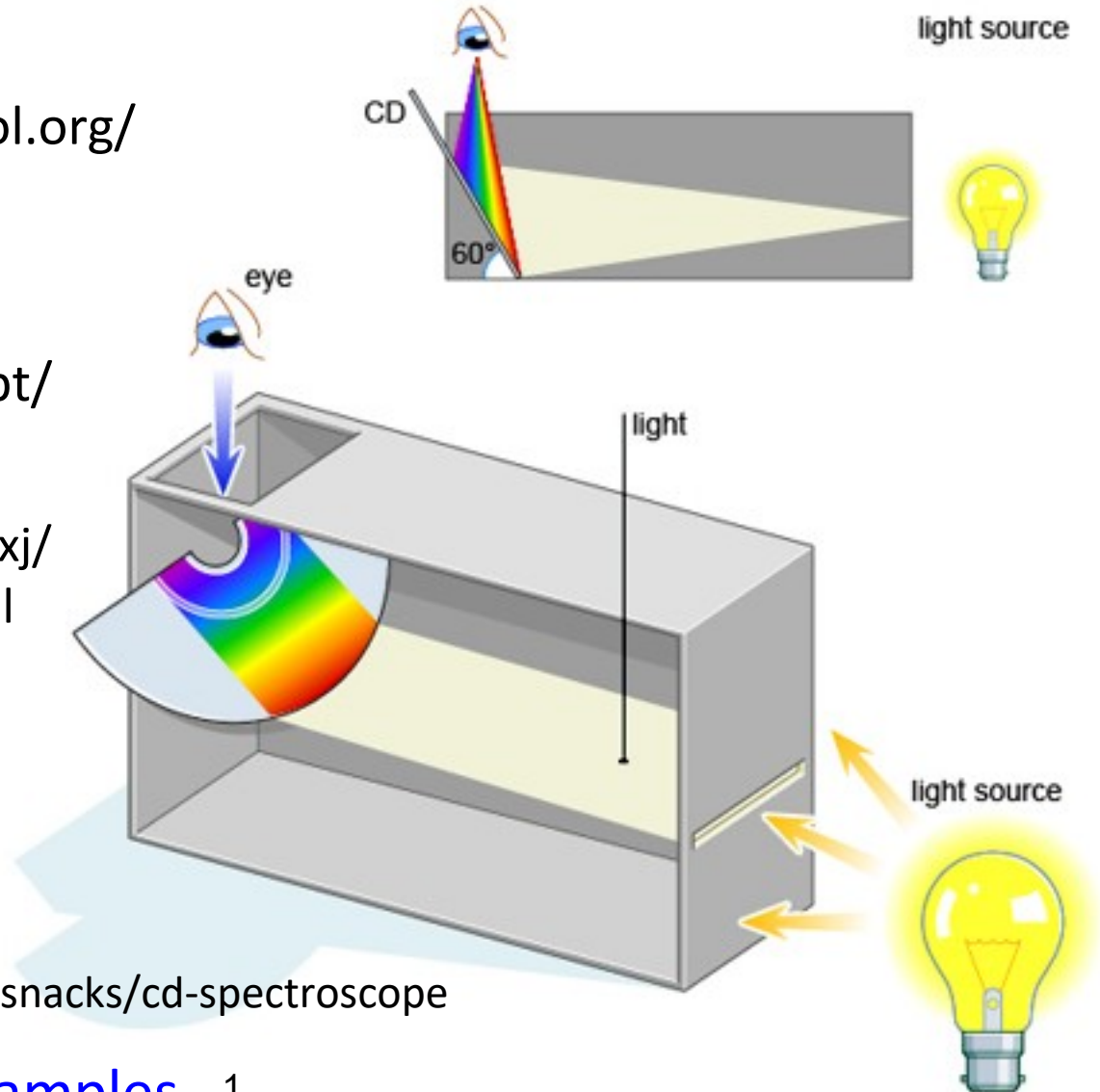
<http://www.scienceinschool.org/2007/issue4/spectrometer>

<http://www.scienceinschool.org/pt/2007/issue4/spectrometer>

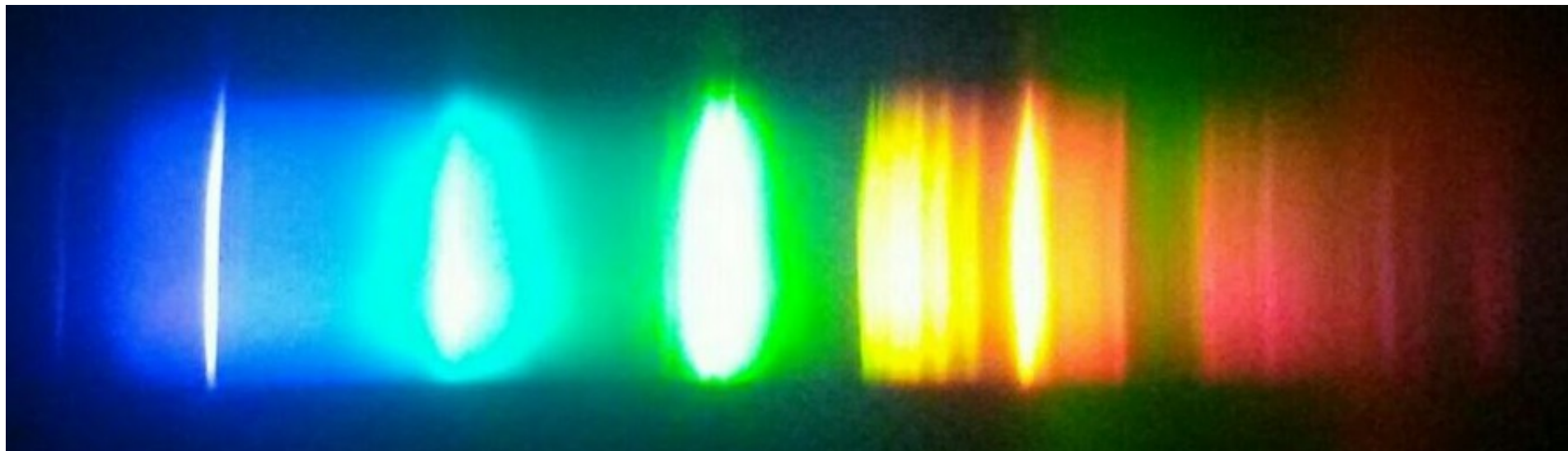
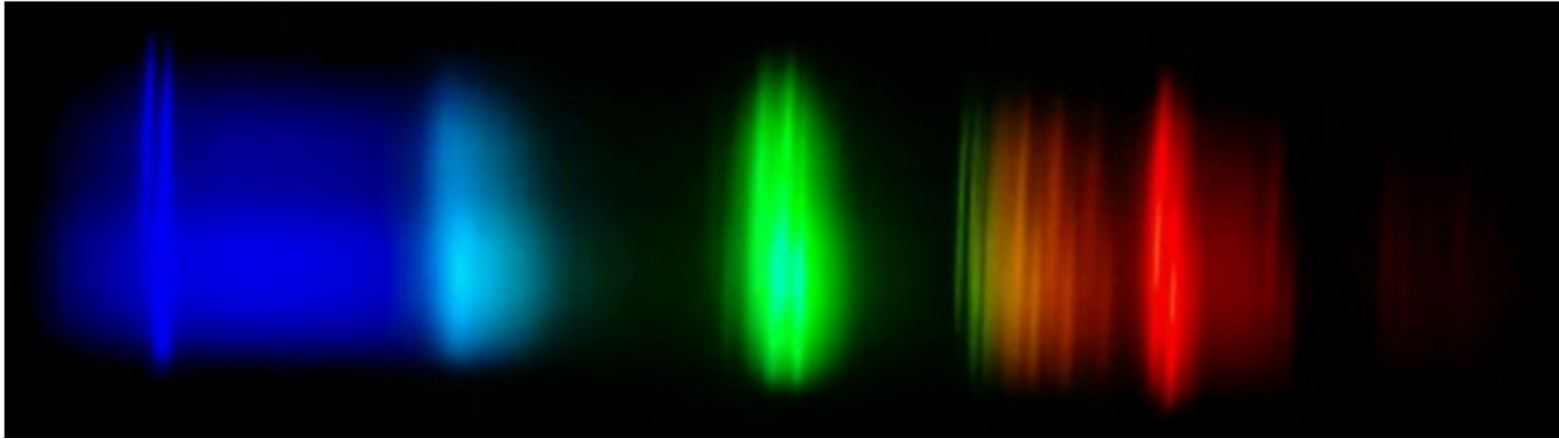
<http://www.cs.cmu.edu/~zhuxj/astro/html/spectrometer.html>

<https://www.exploratorium.edu/snacks/cd-spectroscope>

Feel free to use other examples 1



# Emission lines in compact fluorescent lamp using spectrograph built by undergrad student of Stellar Astrophysics USP 2017



# Criteria to evaluate DVD spectrographs

Easy to see lines, straight lines, good resolving power, good presentation: NOTA 10

- Bad presentation (*por ex. Caixa amassada, fenda torta, light leak, etc.*): -3 points
- Hard to see lines: -2 points
- Inclined lines (*linhas “tortas”*): -2 points
- Bad resolving power (hard to distinguish different lines): -3 points