Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Spectra from Sloan

Does all spectra look the same? Which objects in space have emission spectra? Which have absorption spectra? Use the online database from the SDSS, the Sloan Digital Sky Server, to identify spectra from specific celestial objects. Go to SDSS’s Navigate Tool. <http://cas.sdss.org/dr9/en/tools/chart/navi.asp>

|  |  |  |
| --- | --- | --- |
| Object | Object ID | Description & Spectra |
| Star 1Cool, medium, Hot  |  |  |
| Star 2Cool, medium, Hot  |  |  |
| Star 3Cool, medium, Hot  |  |  |
| Star 4Cool, medium, Hot  |  |  |
| Star 5Cool, medium, Hot  |  |  |
| Galaxy 1 |  |  |
| Galaxy 2 |  |  |
| Galaxy 3 |  |  |
| Galaxy 4 |  |  |
| Galaxy 5 |  |  |
| Quasar 1 (QSO) |  |  |
| Quasar 2 (QSO) |  |  |
| Quasar 3 (QSO) |  |  |

Use the magnification and directional tools to find an interesting area. Check the tool on the drawing option side bar *Objects with spectra*. This shows you every object in the image that has spectra. Browse the other tools to see what they do. Use the *Quick Look* or the *Explore* tool to look at several examples of specific objects. Make note of what their spectra look like. Try to get a variety of each type of object. For stars, indicate whether they are cool, medium or hot temperature.