

## STELLAR EVOLUTION IN THE SKY

1)<sup>3</sup> On the diagram below, neatly (TAKE TIME TO BE NEAT AND CAREFUL IN YOUR WORK!)

a)<sup>10</sup> Sketch the constellation lines & label Lyra, Cygnus, Aquila, The Keystone and The Teapot.

b)<sup>30</sup> Using DIFFERENT COLORS for different LUMINOSITY classes, label the stars Deneb, Vega, Sheliak, Sulaphat, Alberio, Sadr, Altair, Tarazed, Denebokab ( $\delta$  Aql), Althaimain ( $\lambda$  Aql), Dabih ( $\beta$  Cap), Deneb Algeidi ( $\delta$  Cap),  $\zeta$  Her, Ras Algethi ( $\alpha$  Her), Kornephoros ( $\beta$  Her) and Kaus Borealis ( $\lambda$  Sgr), with their name and spectral type. (Use the colors indicated in the legend! Deneb is shown as an example)

c)<sup>15</sup> Indicate the positions of Lagoon, Eagle, Ring, and Veil Nebulas and Cyg. X-1, and state the type of object and the stage of stellar evolution taking place in each (the North America Nebula is an example).

