Life Cycles of

What the star runs out of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ it turns into a Red Giant or supergiant star. Red Giants then have the energy to fuse \_\_\_\_\_\_\_\_\_ to create C\_\_\_\_\_\_, N\_\_\_\_\_\_\_\_\_ and O\_\_\_\_\_\_\_\_

What provides the energy for all stars to begin with?

fusion in red supergiants continues to larger nuclei due to the higher \_\_\_\_\_\_\_\_\_\_\_\_ in the core;

Red Giants lack the mass to compress the core further at the end of the H\_\_\_\_\_\_\_ fusion, and they then shrink into\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_which gradually cool;

As the gases get compressed due to gravity into smaller volumes the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ increases.

Stars

recall that fusion in large stars ceases when the core has been largely converted into I\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_and the star then explodes in a , leaving a dense \_\_\_\_\_\_\_\_\_ star or \_\_\_\_\_\_\_\_\_\_.