

Stellar Evolution Review Sheet¹

Using the following stages of stellar evolution, construct flow charts for each of the three ranges of initial stellar mass: $< 0.08M_{\odot}$, $0.08M_{\odot}-8M_{\odot}$, and $> 8M_{\odot}$. In the flow charts be sure to indicate where evolutionary paths split and specify the criteria that determines which stars follow which paths.

Stages: black hole, brown dwarf, carbon & oxygen fusion, CNO cycle dominates fusion, helium fusion, hydrogen shell burning, Kelvin-Helmholtz (gravitational) contraction, main sequence, neutron star, nova, p-p chain dominates fusion, planetary nebula, pulsar, red giant, type Ia supernova, type II supernova, white dwarf, X-ray burst

$< 0.08M_{\odot}$	$0.08M_{\odot}-8M_{\odot}$

$> 8M_{\odot}$

¹Thanks to Katie Peek for inspiring this worksheet with her version for Ay 10.