Star Stage Cards

Graphics credit: NASA/CXC/M.Weiss, from <u>Chandra Stellar Evolution website</u>







Black Hole

White Dwarf & Planetary Nebula









<u>This</u> is the final stage in the lifecycle of the most massive stars. The gravity around these is so strong that light cannot escape. Over time, white dwarfs will cool <u>into these</u> and no longer glow. Calculations show it would take about 1 trillion years! None have finished cooling yet.

Red supergiants eventually become unstable, exploding <u>into</u> <u>these</u>! The outside collapses on the core, throwing the outer layers of the star into space. A small core remains.

<u>These stars</u> have lower mass and live longer lives than higher mass stars. Our Sun is one of these.

