

A WHITE DWARF is the burnt out core of a dead star

Stars stay bright because of nuclear fusion

When it stops, the star dies, and the core is left behind...

The White Dwarf



This is the future of our Sun!

Planetary nebula: The envelope of the star is ejected into space as it dies, creating beautiful colours and patterns.

They are...



60% the mass of the Sun



Earth-sized

So dense that...



One spoonfull would weigh a tonne!



They are made of...

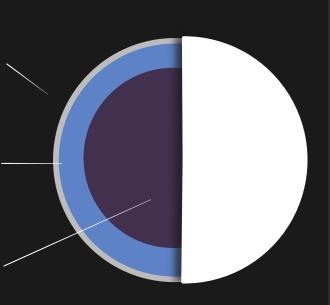
Left-overs from the dead star...

and by-products of the fusion that powered it.

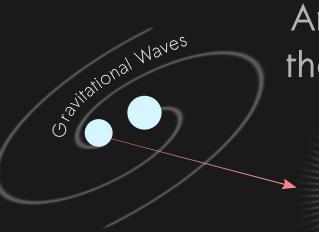
A thin Hydrogen atmosphere

A Helium rich envelope

A Carbon and Oxygen core



97% of all stars
will become
White Dwarfs



And if two of them merge...

Supernova explosion

...they release gravitational waves and a supernova!