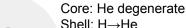
## Main Sequence

Core: H→He Envelope: H

duration: until core grows to 1/6 of star

### Red Giant



Envelope: H (expands)

duration: until H depleted in 1/2 of star

#### Horizontal Branch

Core: He→C Shell: H→He Envelope: H

duration: until H depleted in 1/2 of star

# Asymptotic Giant (AGB)

Core: C/O degenerate Shells: He→H, H→He Envelope: H (expands)

duration: until H depleted in 1/2 of star

# White Dwarf + Planetary nebula

Core: C/O degenerate

Envelope: H (expands)

duration: until H depleted in 1/2 of star