# Astronomy Ranking Task: Stellar Evolution 

## Exercise \#3

Description: The list below provides various stages of star formation and evolution for low mass stars ( $<8 M_{\text {Solar }}$ ) and high mass stars ( $>8 M_{\text {Solar }}$ ).
A Planetary Nebula
G O Spectral Class Main Sequence
Star
B G Spectral Class Main Sequence Star H Molecular Cloud of Gas and Dust
C Neutron Star
D Supernova Type II
E Nothing
I White Dwarf
J Black Hole
K Supernova Type I
F Giant
L Nova
M Gravity Collapse of Gas/Dust
Cloud
A) Ranking Instructions: Rank, from earliest to latest, the stages for a low mass stars without a companion. Do not include any stages that do not apply.

## Earliest

Latest
Information is insufficient to rank stages: $\qquad$ (indicate with check mark).

Carefully explain your reasoning for ranking this way:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
B) Ranking Instructions: Rank, from earliest to latest, the stages for a low mass stars with a companion. Do not include any stages that do not apply.

## Earliest

Latest
Information is insufficient to rank stages: $\qquad$ (indicate with check mark).

Carefully explain your reasoning for ranking this way:
C) Ranking Instructions: Rank, from earliest to latest, the stages for the least massive of the high mass stars. Do not include any stages that do not apply.

## Earliest

Latest
Information is insufficient to rank stages: $\qquad$ (indicate with check mark).

Carefully explain your reasoning for ranking this way:
$\qquad$
$\qquad$
$\qquad$
D) Ranking Instructions: Rank, from earliest to latest, the stages for the most massive of the high mass stars. Do not include any stages that do not apply.

## Earliest

Latest
Information is insufficient to rank stages: $\qquad$ (indicate with check mark).

Carefully explain your reasoning for ranking this way:

