

Team Number: _____ Team Name: _____

Score:

Answer Sheet:

- 1a) _____ Cepheid _____ (Type) 5b) _____ U _____ (A - X)
_____ Semi - Regular _____ (Type) 5c) _____ R Coronae Borealis _____ (Type)
Type II Supernova or Cataclysmic (Type) 5d) _____ F _____ (A - X)
- 1b) _____ P _____ (A - X) 6a) _____ P _____ (A - X)
_____ R _____ (A - X) 6b) _____ A hump on the ascending curve _____

- 1c) _____ 9 _____ (1 - 10) _____
_____ 1 _____ (1 - 10) _____
- 2a) _____ Q _____ (A - X) 6c) _____ The color would change because the _____
_____ Flare Star _____ (Type) _____ temperature is changing. At maxima _____
_____ 3 _____ (1 - 10) _____ temperature is highest an the color _____
3a) _____ SU Ursae Majoris _____ (Object) _____ would be bluer during these times _____
3b) _____ Solar-Type (Main Sequence) _____ (Type) _____
- _____ White Dwarf _____ (Type) 7a) _____ W _____ (A - X)
_____ Accretion Disk _____ (Type) 7b) _____ The observed spectra is shifted _____
3c) _____ D _____ (A - X) _____ towards shorter wavelengths _____
_____ S _____ (A - X) _____ (Doppler Effect); so the wind is _____
3d) _____ E _____ (A - X) _____ blowing towards Earth _____
- 4a) _____ H _____ (A - X) _____
- 4b) _____ 7 _____ (1 - 10) 8a) _____ 85 - 100 _____ (days)
4c) _____ RR Lyrae _____ (Type) 8b) _____ 400 - 450 _____ (days)
4d) _____ 8 _____ (1 - 10) 8c) _____ Pulsating _____ (Type)
- 5a) _____ R Coronae Borealis _____ (Object) 8d) _____ L _____ (A - X)

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8e) _____A_____ (A – X) 13) _____27.0_____ (Solar Masses)

8f) _____V725_____ (Object) 14) _____1.0_____ (A.U.)

8g) __The more massive main sequence_ 15) _____200 – 236_____ (km/s)
 __star has accreted mass from the ___ 16) _____50 - 70_____ (Degrees)

__originally more massive red giant_ 17) _____A_____ (A – C)

__companion_____ 18) _____E_____ (A – G)

_____ 19) _____4_____ (times more)

9a) _____V_____ (A – X) 20) _____5.3 - 5.4_____ (days)

9b) __Nucleus of a Galaxy__ (Type) 21) _____4.75 - 4.95_____ (days)

9c) __No – Core, Star was Destroyed__ (Type) 22) _____240 - 290_____ (parsecs)

10a) __T_____ (A – X) 23) _____66 - 69_____ (parsecs)

10b) _____Speeding Up_____ 24) _____C_____ (A – C)

10c) __128 – 136 x 10⁶_____ (Years) 25) _____28 - 32_____ (parsecs)

10d) _____4_____ (1 – 10) 26) __1.3 – 1.5 or SQRT(2)_ (times smaller)

11) __Period decreased and is now _____ 27) _____0.2 – 0.3_____ (mW)

__increasing with a constant rate_____ 28) _____Neutron Star_____ (Type)

__of change_____

12a)

12b)

12c)

