

Team Name: _____ Team Number: _____

1. a (a,b,c,d,e) 33. southern (northern, southern)
2. Lyra (name of constellation) 34. Libra (name of constellation)
3. Altair (name of star) 35. kk (jj,kk,ll)
4. Aquila (name of constellation) 36. M57 or Ring Nebula (name of object)
5. b (a,b,c,d,e) 37. Lyra (name of constellation)
6. Hercules (name of constellation) 38. Cas A (name of object)
7. f (f,g,h,i,j,k,l,m,n) 39. Cassiopeia (name of constellation)
8. Ursa Major (name of constellation) 40. M1 Crab Nebula (name of object)
9. g (f,g,h,i,j,k,l,m,n) 41. X-Ray (Radio, Microwave, IR, Visible,UV, X-ray, Gamma-ray)
10. Bootes (name of constellation) 42. vi (i,ii,iii,iv,v,vi,vii,viii,ix,x,xi,xii,xiii,xiv,xv,xvi,xvii,xviii)
11. Spica (name of star) 43. iv (i,ii,iii,iv,v,vi,vii,viii,ix,x,xi,xii,xiii,xiv,xv,xvi,xvii,xviii)
12. m (f,g,h,i,j,k,l,m,n) 44. xvi (i,ii,iii,iv,v,vi,vii,viii,ix,x,xi,xii,xiii,xiv,xv,xvi,xvii,xviii)
13. Orion (name of constellation) 45. Supernova Remnant (stage of evolution)
14. Betelgeuse (name of star) 46. Large Magellanic Cloud (name of object)
15. Rigel (name of star) 47. UV (Radio, Microwave, IR, Visible,UV, X-ray, Gamma-ray)
16. Gemini (name of constellation) 48. Globular Cluster (type of star cluster)
17. r (o,p,q,r,s,t,u) 49. β (α,β)
18. Canis Major (name of constellation) 50. Spiral (type of galaxy)
19. Cancer (name of constellation) 51. gg (cc,dd,ee,ff,gg)
20. Aldebaran (name of star) 52. xii (i,ii,iii,iv,v,vi,vii,viii,ix,x,xi,xii,xiii,xiv,xv,xvi,xvii,xviii)
21. v (v,w,x) 53. t (o,p,q,r,s,t,u)
22. Altair or Arcturus (name of star) 54. xiii (xiii,xviii)
23. Altair or Arcturus (name of star) 55. xxi (xix,xx,xxi)
24. y (y,z,aa,bb) 56. farther (closer, farther)
25. z (y,z,aa,bb) 57. star formation (stage of evolution)
26. Capella (name of star) 58. Blue Stragglers (term for stars)
27. ff (cc,dd,ee,ff,gg) 59. hotter (hotter,colder)
28. cc (cc,dd,ee,ff,gg) 60. xxii (xxii,xxv,xxvi)
29. dd (cc,dd,ee,ff,gg) 61. Mira (name of star)
30. Algol (name of star) 62. xxiv (xxiii,xxiv)
31. Polaris (name of star) 63. xxiii (xxiii,xxiv)
32. Canes Venatica (name of constellation) 64. α (α,β,γ,δ,ε)

Team Name: _____ Team Number: _____

65. _____ **δ** _____ ($\alpha, \beta, \gamma, \delta, \varepsilon$)
66. _____ **ε** _____ ($\alpha, \beta, \gamma, \delta, \varepsilon$)
67. _____ **γ** _____ ($\alpha, \beta, \gamma, \delta, \varepsilon$)
68. _____ **β** _____ ($\alpha, \beta, \gamma, \delta, \varepsilon$)

69. _____ **Sirius** _____ (Sirius, Betelgeuse)
70. _____ **Betelgeuse** _____ (Sirius, Betelgeuse)
71. _____ **Betelgeuse** _____ (Sirius, Betelgeuse)

72. _____

0.5) Main Sequence Departure

0.5) Helium Fusion Ceases

0.5) Sub-giant

0.5) Hydrogen Fusion in Shell

0.5) Helium Flash

0.5) Red Giant

0.5) Carbon Core

0.5) Planetary Nebula

0.5) White Dwarf

0.5) Cooling

73. _____

0.5) Departure from Main Sequence

0.5) Turn-off Point

0.5) Higher Mass or Brighter or Hotter -> Leave Main Sequence Sooner

0.5) Blue Stragglers

0.5) Horizontal Branch

0.5) Giants

74. _____

0.5) Same Blackbody Background

0.5) Absorption by Different Elements

0.5) Multiple Lines Per Element

0.5) Different Elements Ionized at Different Temperatures

0.5) Specifically Mentions Either Hydrogen

0.5) Specifically Mention any other Element

75. _____

0.5) Mention Cas A or Supernova Remnant

0.5) Mention Visible (or Optical) or Mention X-Ray

0.5) Makes Connection Between Different Radiation Types and Energy

0.5) Distinguishes temperatures or processes at different parts of the remnant

0.5) Mention Absorption

0.5) Describes the Appearance of the Images