

ASTRONOMY ANSWER KEY PAGE 1

Team Name _____ Team # _____

- 1. ii (i-vii)
- 2. vii (i-vii)
- 3. i (i-vii)
- 4. vii (i-vii)
- 5. iv (i-vii)
- 6. iii (i-vii)
- 7. iv (i-vii)
- 8. v (i-vii)
- 9. ii (i-vii)
- 10. vi (i-vii)

11. 75-125 (pc)

12. 3000-8000 (times)

13. **Cloud, Gravity, Momentum,
Heat, Protoplanetary Disk,
Fusion, Accretion**

14. v (viii-xi)

15. viii (viii-xi)

16. xi (viii-xi)

17. viii (viii-xi)

18. 3000-5000 (K)

19. 0-5 (mag)

20. visible

21. xv (xiii-xv)

22. Hydrogen

23. **A strongest, Temperature,
Energy, Absorption Lines,
Electrons, Ionization**

24. xvii (xvii-xix)

25. 4500-6500 (K)

26. ii (i-vii)

27. 50-500 (R_{\odot})

28. 2.0-4.0 (times)

29. 1 (pc)

30. xxiii (xx-xxiii)

31. 0.36-0.40 (arcsec)

32. 4 (times)

33. 1 (times)

34. **Baseline, Apparent Position,
Eccentricity, Classification,
Spectral Lines, Interstellar
Absorption, Variability**

35. Lepus

36. Flare Star

37. 35-45 (AU)

38. Super Neptunes

ASTRONOMY ANSWER KEY PAGE 2

Team Name _____ Team # _____

- | | |
|---|---|
| 39. _____ M _____ (H-Z) | 76. _____ HD209458b _____ |
| 40. _____ Papillon Nebula _____ | 77. _____ General Relativity _____ |
| 41. _____ LMC _____ | 78. _____ 0.24-0.30 _____ |
| 42. _____ W _____ (H-Z) | 79. _____ Directly Imaged _____ |
| 43. _____ Magnetic Field/ Dynamo _____ | 80. _____ Moving Cluster Method _____ |
| 44. _____ T _____ (H-Z) | 81. _____ sub brown dwarf _____ |
| 45. _____ Luhman 16 & WISE1049-5319 _____ | 82. _____ 1.4-1.5 _____ (M_{\odot}) |
| 46. _____ 0.239 _____ (M_{\odot}) | 83. _____ AK _____ (AA-AL) |
| 47. _____ N _____ (H-Z) | 84. _____ AB _____ (AA-AL) |
| 48. _____ Orthowater & Parawater _____ | 85. _____ Starspots _____ |
| 49. _____ H _____ (H-Z) | 86. _____ $8 \times 10^{18} - 2 \times 10^{19}$ _____ (W) |
| 50. _____ Infrared _____ | 87. _____ AF _____ (AA-AL) |
| 51. _____ Interstellar Meteors _____ | 88. _____ 24 - 26 _____ (hr) |
| 52. _____ Fomalhaut _____ | 89. _____ LP944-20 _____ |
| 53. _____ 3 _____ (1-3) | 90. _____ AG _____ (AA-AL) |
| 54. _____ Z _____ (H-Z) | 91. _____ 1.4×10^{-4} & 1.4×10^{-6} _____ (m) |
| 55. _____ J _____ (H-Z) | 92. _____ Infrared & Microwave _____ |
| 56. _____ X-ray _____ | 93. _____ AC _____ (AA-AL) |
| 57. _____ Lithium _____ | 94. _____ 2.5 - 3.0 _____ (L_{\odot}) |
| 58. _____ GJ1214b _____ | 95. _____ 3.5 - 4.0 _____ (L_{\odot}) |
| 59. _____ D _____ (A-D) | 96. Mass, Energy, Luminosity,
Main Sequence, Constant,
Empirical. Blackbody, Surface
Temperature, Area. S-B is more
directly related to luminosity. |
| 60. _____ Water _____ | _____ |
| 61. _____ Trifid Nebula, M20, NGC6514 _____ | _____ |
| 62. _____ X _____ (H-Z) | _____ |
| 63. _____ 2M1207 _____ | _____ |
| 64. _____ I _____ (H-Z) | _____ |
| 65. _____ N _____ (H-Z) | _____ |
| 66. _____ O _____ (H-Z) | _____ |
| 67. _____ Osiris _____ | _____ |
| 68. _____ $1- 4 \times 10^{24}$ _____ (kg) | _____ |
| 69. _____ AD _____ (AA-AL) | _____ |
| 70. _____ Rhines Scale _____ | _____ |
| 71. _____ FU Orionis _____ | _____ |
| 72. _____ AI _____ (AA-AL) | 97. _____ $4.0 - 6.0 \times 10^{22}$ _____ (W) |
| 73. _____ P Cygni Profiles _____ | 98. _____ AE _____ (AA-AL) |
| 74. _____ Away _____ | 99. _____ AH _____ (AA-AL) |
| 75. _____ $4 - 5 \times 10^6$ _____ (m/s) | 100. _____ Protoplanetary Disk _____ |