Match the Star according to its image and spectrum. What color would you classify the star? Why?

List of Stars

	Aldebaran	Capella	Deneb	Procyon	Rigel	Vega
	Betelgeuse	Castor	Pollux	Regulus	Sirius	
<u>Prop</u>	erties of the Stars	(to help gu	ide you)			
	Aldebaran	Betelgeuse				
	RA Dec 4h35m5	RA Dec 5h55m10.26s 7d24m26s				
	Spectral type K5	Spectral Type M21b				
	Distance (ly) 65.1 Lum (sol) 425			Distance (ly) 430		
				Lum (sol) 105.000		
	Diam (sol) 44.2			Diam (sol) 936		
	Mass (sol) 1.7 Capella			Mass (sol) 18		
				Castor		
	RA Dec 5h16m41s 45d59m53s			RA Dec 7h34m36.0s 31d53m18s		
	Spectral type G5III+G0II			Spectral type A1V		

Lum (sol) 79

Distance (ly) 42.2

Diam (sol) 12

Mass (sol) 2.7

Deneb

RA Dec 20h41m26s 45d16m49s Spectral type A2Ia Distance (Iy) 3200 Lum (sol) 54,000 Diam (sol) 110 Mass (sol) 20

Pollux

Distance (ly) 51.5

Lum (sol) 30/14

Diam (sol) 2.3/1.6

Mass (sol) 2.2/1.7

RA Dec 7h45m19s 28d1m34s Spectral type KOIII Distance (ly) 33.7 Lum (sol) 32 Diam (sol) 8 Mass (sol) 1.9

Procyon

RA Dec 7h39m18s 5d13m30s Spectral type F5IV Distance (ly) 11.4 Lum (sol) 7.7 Diam (sol) 2.0 Mass (sol) 1.5

Regulus

RA Dec 10h8m22.3s 11d58m2s Spectral type B7V Distance (ly) 77.5 Lum (sol) 150 Diam (sol) 3.2

Mass (sol) 3.5

Rigel

RA Dec 5h14m32.3s -8d12m6s Spectral type B8Ia Distance (ly) 770 Lum (sol) 66,000 Diam (sol) 78 Mass (sol) 17

Sirius

RA Dec 6h45m9s -16d42m58s Spectral Type A1V Distance (ly) 8.6 Lum (sol) 25 Diam (sol) 1.7 Mass (sol) 2.0

Vega

RA Dec 18h36m56s 38d47m1s Spectral type A0V

Distance (ly) 25.3

Lum (sol) 37

Diam (sol) 2.3

Mass (sol) 2.1





2. Star: _____ Color: _____

4000

4500

5000



 ${\mathbb L}^{*}$

750Ŏ

7000

6500

6000

5500

3. Star: _____ Color: _____





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