

**Appendix 1: Spectral Lines**

<b>Element</b>	<b>Wavelength (nm)</b>	<b>Colour</b>
Barium	659.5 614.1 585.4 577.7 553.5 455.4	Red Orange Yellow Yellow Green (strong) Blue (strong)
Calcium	445.4 443.4 442.6 396.8 393.3	Blue Blue-violet Violet (strong) Violet (strong) Violet (strong)
Chromium	520.8 520.6 520.4 428.9 427.4 425.4	Green Green Green Violet (strong) Violet (strong) Violet (strong)
Copper	521.8 515.3 510.5	Green Green Green
Hydrogen	656.2 486.1 434.0 410.1	Red Green Blue-violet Violet
Helium	706.5 667.8 587.5 501.5 471.3 388.8	Red Red Orange (strong) Green Blue Violet (strong)
Potassium	404.7 404.4	Violet (strong) Violet (strong)

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Element	Wavelength (nm)	Colour
Mercury	623.4	Red
	579.0	Yellow (strong)
	576.9	Yellow (strong)
	546.0	Green (strong)
	435.8	Blue-violet
	*Many lines in the violet and ultraviolet	
Lithium	670.7	Red (strong)
	610.3	Orange
	460.3	Violet
Sodium	589.5	Yellow (strong)
	588.9	Yellow (strong)
	568.8	Green
	568.2	Green
Neon	Many lines in the red	
	640.2	Orange
	585.2	Yellow
	540.0	Green
Strontium	496.2	Blue-green
	487.2	Blue
	483.2	Blue
	460.7	Blue (strong)
	430.5	Blue-violet
	421.5	Violet
	407.7	Violet