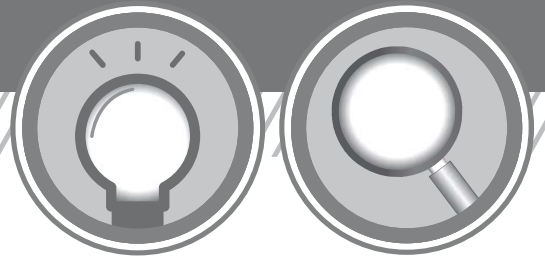


ACTIVITY ELEMENTS IN THE UNIVERSE

LOCATION ASTRONOMY CENTRE



GALLERY ASTRONOMY INSPIRES & EXPLORES ///

Go to the *Astronomy Inspires* gallery and watch the video.
Where did all of the elements we see on Earth originally come from? ///



Meteorites are relics from the birth of the Solar System. The composition of a meteorite tells us about its birthplace: a high fraction of light elements (that have low boiling points) suggests they were made in the outer colder regions of the Solar System whereas a high percentage of heavier elements suggests a formation site in the warmer inner regions.

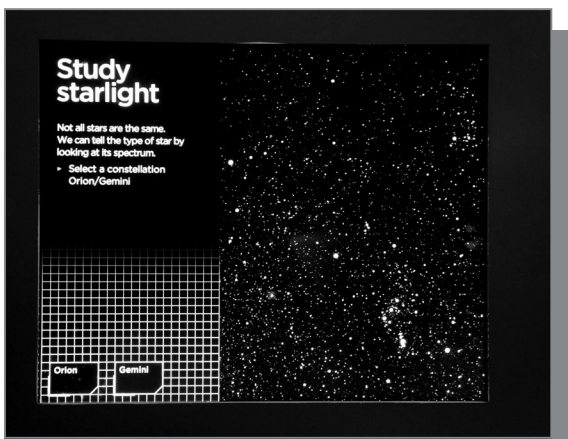
Go to the *Astronomy Explores* gallery and look at the Allende meteorite. Shade in the correct elements in the periodic table below///

hydrogen 1 H 1.0079																	helium 2 He 4.0026	
lithium 3 Li 6.941	beryllium 4 Be 9.0122											boron 5 B 10.811	carbon 6 C 12.011	nitrogen 7 N 14.007	oxygen 8 O 15.999	fluorine 9 F 18.998	neon 10 Ne 20.180	
sodium 11 Na 22.990	magnesium 12 Mg 24.305											aluminium 13 Al 26.982	silicon 14 Si 28.086	phosphorus 15 P 30.974	sulfur 16 S 32.065	chlorine 17 Cl 35.453	argon 18 Ar 39.948	
potassium 19 K 39.098	calcium 20 Ca 40.078	scandium 21 Sc 44.956	titanium 22 Ti 47.867	vanadium 23 V 50.942	chromium 24 Cr 51.996	manganese 25 Mn 54.938	iron 26 Fe 55.845	cobalt 27 Co 58.933	nickel 28 Ni 58.693	copper 29 Cu 63.546	zinc 30 Zn 65.39	gallium 31 Ga 69.723	germanium 32 Ge 72.61	arsenic 33 As 74.922	selenium 34 Se 78.96	bromine 35 Br 79.904	krypton 36 Kr 83.80	
rubidium 37 Rb 85.468	strontium 38 Sr 87.62	yttrium 39 Y 88.906	zirconium 40 Zr 91.224	niobium 41 Nb 92.906	molybdenum 42 Mo 95.94	technetium 43 Tc [98]	ruthenium 44 Ru 101.07	rhodium 45 Rh 102.91	palladium 46 Pd 106.42	silver 47 Ag 107.87	cadmium 48 Cd 112.41	indium 49 In 114.82	tin 50 Sn 118.71	antimony 51 Sb 121.76	tellurium 52 Te 127.60	iodine 53 I 126.90	xenon 54 Xe 131.29	
caesium 55 Cs 132.91	barium 56 Ba 137.33	57-70 *	lutetium 71 Lu 174.97	hafnium 72 Hf 178.49	tantalum 73 Ta 180.95	tungsten 74 W 183.84	rhenium 75 Re 186.21	osmium 76 Os 190.23	iridium 77 Ir 192.22	platinum 78 Pt 195.08	gold 79 Au 196.97	mercury 80 Hg 200.59	thallium 81 Tl 204.38	lead 82 Pb 207.2	bismuth 83 Bi 208.98	polonium 84 Po [209]	astatine 85 At [210]	radon 86 Rn [222]

Which part of the Solar System do you think meteorites come from?///

You can see a large meteorite near the entrance. We can study a meteorite that has landed on the Earth by cutting it open and analysing the material. Most space objects are too far away for us to take samples for analysis.

Use the exhibits in this gallery to learn about the tools astronomers use to understand the Universe. How can we find out the composition of stars?///



Go to the **Studying Starlight** activity. Choose **Orion**.

What type of star is Betelgeuse?///

What type of star is Bellatrix?///

Why are these stars different colours?///