

# Mixture of Elements

- ▶ The **matter in the universe** is about **75% hydrogen** & **25% helium**.
- ▶ •The abundance of H & He supports a particular process of past atomic creation, where the larger elements formed from the smaller elements.

H B																		He B					
Li C	Be C																	B C	C S L	N S L	O S L	F L	Ne S L
Na L	Mg L																	Al \$ L	Si \$ L	P L	S S L	Cl L	Ar L
K L	Ca L	Sc L	Ti \$ L	V \$ L	Cr L	Mn L	Fe \$ L	Co \$	Ni \$	Cu L	Zn L	Ga \$	Ge \$	As L	Se \$	Br \$	Kr \$						
Rb \$	Sr L	Y L	Zr L	Nb L	Mo \$ L	Tc L	Ru \$ L	Rh \$	Pd \$ L	Ag \$ L	Cd \$ L	In \$ L	Sn \$ L	Sb \$	Te \$	I \$	Xe \$						
Cs \$	Ba L		Hf \$ L	Ta \$ L	W \$ L	Re \$	Os \$	Ir \$	Pt \$	Au \$	Hg \$ L	Tl \$ L	Pb \$	Bi \$	Po \$	At \$	Rn \$						
Fr \$	Ra \$																						
		La L	Ce L	Pr \$ L	Nd \$ L	Pm \$ L	Sm \$ L	Eu \$	Gd \$	Tb \$	Dy \$	Ho \$	Er \$	Tm \$	Yb \$ L	Lu \$							
		Ac \$	Th \$	Pa \$	U \$	Np \$	Pu \$	Am M	Cm M	Bk M	Cf M	Es M	Fm M	Md M	No M	Lr M							

<div style="background-color: #ccccff; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 8px;">B</div> <b>Big Bang</b>	<div style="background-color: #90ee90; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 8px;">L</div> <b>Large stars</b>	<div style="background-color: #ffcc99; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 8px;">\$</div> <b>Super-novae</b>
<div style="background-color: #add8e6; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 8px;">C</div> <b>Cosmic rays</b>	<div style="background-color: #ffff00; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 8px;">S</div> <b>Small stars</b>	<div style="background-color: #cc99ff; width: 20px; height: 20px; margin: 0 auto; display: flex; align-items: center; justify-content: center; font-size: 8px;">M</div> <b>Man-made</b>