

Elements, Mixtures and Compounds:
 What are the differences between the substances in this topic title? You will be introduced to the basics of the types of substance all matter is made up of be shown how to harness the differences and similarities between these different substances as you begin your journey into chemistry.

The Autumn line

Challenge:
 Identify the mixtures in everyday life and research ways to separate them and isolate the compounds

Check point
 A topic assessment testing knowledge, elements mixtures and compounds

Climate:
 What is our atmosphere made up of? How did it come to be? Was it the same as the atmosphere when the earth first came to be? What will happen in the future? All these questions will be answered during this exciting journey through time

Chemistry

Challenge:
 Watch documentaries like "before the flood" and "an inconvenient truth" and write a summary of what you have learnt.

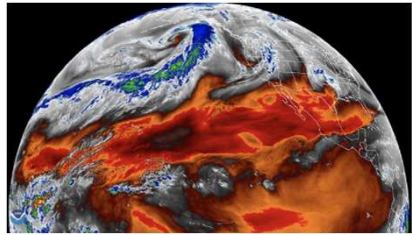


Check point
 Exam week: Knowledge will be tested on topics learnt so far.

Chemical reactions:
 Learn what happens on a particle level when substances react. Discover why some reactions are vigorous, whilst others are slow and subtle.

Climate continued:
 We will continue to look in the details of how our atmosphere came to be and predictions for the future fate of it.

The Spring line



The Summer line

Atomic structure
 What are atoms made of? How do we know? As an introduction to KS4 you will learn about the structure of the atom and how this

Challenge: Create a poster of the chemistry you encounter in everyday life. Incorporate the knowledge and skills you have learnt throughout the year.

Check point
 Assessment testing your knowledge and skills from previous topics

periodic table of the elements

1	2											18					
H	He											Ne					
Li	Be	B	C	N	O	F	Ne					Ar					
Na	Mg	Al	Si	P	S	Cl	Ar					Kr					
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	Lr	Rf	Db	Sg	Bh	Hs	Mt	Uu	Uu	Uu	Uu	Uu	Uu	Uu	Uu	Uu
		La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb		
		Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No		