Science

Being a Scientist:
What does it take to become a great scientist? Follow in the footsteps of Marie Curie and Katherine Johnson as you learn the fundamentals of how science works and develop basic skills as you take your first steps into the world of science.

Challenge :
Science heroes – Research and write a summary of a "scientific hero". What is their field of research? What is their background. Have they contributed to any notable discoveries? Can you pick one that your teacher may not have heard of?!

Cells:
Once armed with the basics, we will continue our journey by investigating at what plants and animals are made from. We will continue to develop key practical skills which will include learning how analysis samples with microscopes in the lab

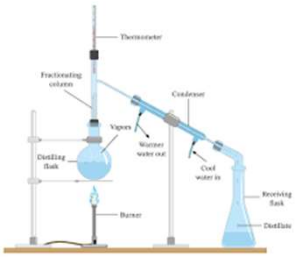
Check point
A topic assessment testing knowledge, of how science works and cells.

Challenge:
Create a model of a cell using household items and present your model to the class!

The Autumn line

Space and the Universe:
What is in space? Is there life on other planets? How would you organise a mission to explore new worlds? We will look at all these questions amongst others as we take a journey through our solar system and beyond.

Check point
A topic assessment testing knowledge, on matter, chemical reactions and separating mixtures.



Challenge :
Create a poster about chemistry in the world around and enter it into the RSC competition

Chemical Reactions & Separating mixtures. :
Why is sodium stored under oil? What happens if you mix an acid and an alkali? We will formally introduce you to the world of Chemistry as explore some of the elements on the periodic table.

The Spring line

Challenge:
Can you design two paper aeroplanes, one which will fly the furthest and one which will stay in the air the longest? How would the design of each differ? Can you explain the physics behind your design choices?

Ecology and Biodiversity:
We will continue in our journey and look at diversity in the world around. On a scientific level we will establish why

Check point
End of year assessment testing your knowledge and skills from each of this year's units.

Challenge:
Build on your understanding of previous topics and embark on a mini-project focussed on ecology

Reproduction:
Learn the science behind life as we learn about reproduction in the plant and animal world

The Summer line