



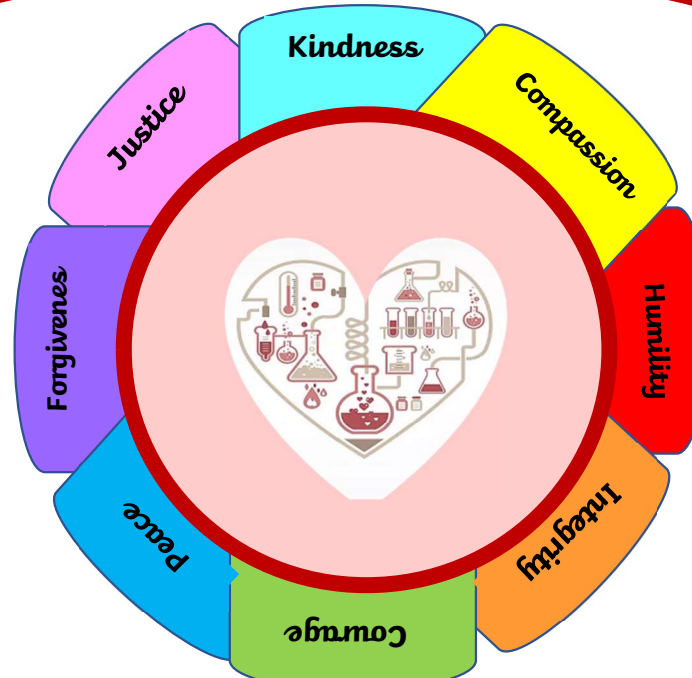
# Being a scientist at Sacred Heart



At Sacred Heart our Gospel values and virtues are at the centre of all we do. Through these values and virtues our children grow and develop in a nurturing environment, learning every day to appreciate the wonderful world that God has created for us. Our Science curriculum allows children to explore the world through the different scientific domains in order to question and experiment to further enhance their understanding of the world around them.

## What do we do?

Develop scientific knowledge and conceptual understanding through chemistry, biology and physics.  
Develop understanding of the nature, processes and methods of science through different types of science enquiries.  
Allow children to have autonomy over their scientific enquiries, developing their own questions and methods.  
Teach scientific vocabulary to extend the children's knowledge.  
Incorporate opportunities to use spoken language within science lessons so children can articulate scientific concepts clearly and concisely.  
Provide opportunities for children to work co-operatively in small groups.  
Provide children with the opportunities to test, experiment and find out through enquiry



## How do we do it?

The teaching and learning of substantive knowledge to deepen understanding.  
The teaching and practice of disciplinary knowledge to improve skills and to support working scientifically.  
The structure of plan, do and review.  
We use our local environment – Jubilee Garden, beaches, woodland and moorland to gain a deeper understanding of nature.  
Participating in inter-generational projects in upper KS2.  
The use of Explorify to get the children thinking and discussing science.  
Teaching incorporates the use of books to aid understanding.  
The children are taught about the work of scientists from different fields, so that learning can be applied to real life contexts.  
Through our Gospel Values the children show care and respect for the environment.

## How will we know?

### Sacred Heart pupils will leave our school:

Being inspired by the work of scientists and using their own science experiences to plan and carry out scientific investigations.  
Understanding that God's creation needs to be protected and everyone has a part to play in that.  
Knowing that they can make a difference to the world.  
Having the knowledge and enthusiasm to continue on their KS3 science journey.