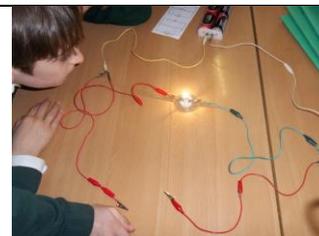




The  
**ORATORY**  
RC PRIMARY  
School

## **What do we want our Oratory Scientists to know, understand and be able to do before they leave Year 6?**



Primary science is the first opportunity to develop pupils' curiosity about the world.

Children are naturally curious. Science at primary school should nurture this curiosity and allow them to ask questions and develop the skills they need to answer those questions.

Primary science helps pupils to:

- investigate problems
- learn how science works
- discover why science matters in the world.

### **Science Encourages Creativity**

Experimenting requires trial and error. Children learn that if something doesn't work the first time, try it again. Giving them room to try new ideas fosters creativity and resourcefulness. Science is a study that starts with a question. Answers are not given right away; instead, students search them out.

### **Develops problem-solving skills**

With the knowledge of science, you learn to think logically and solve a problem. It is this problem-solving skill, which is learnt in the early years that enables a person to solve problems.

### **Science Develops Analytical Thinking Skills**

To analyse something means to look closer, or examine. Science does that by having students make observations. They can later predict an outcome or form a conclusion based on what they see.

### **Improves Communication Skills; Helps Develop Literacy and Language**

Science is also an opportunity to work with others. Children learn to communicate ideas in a respectful way, and set a common goal. As you do science experiments, you practice your writing skills and expand your vocabulary at the same time.

### **Science Develops a Love of Learning**

When you discover something on your own, that thing has power. It resonates inside you, nurturing possibilities and opening doors. By seeking answers scientists learn to pursue knowledge. Becoming a self-taught or independent learner is a lifelong process.

### **Science Broadens Our Perspective**

Science changes how you see other subjects, including art and music. Someone may examine works of art with more interest after studying how our eyes see colour. Students may notice the variety of tones in orchestra instruments after studying sound waves. An understanding of science can also add interest to everyday activities like taking a walk, or shovelling snow. Science explains the world around us. But through the explanation, we delight and wonder.

### **Helps Separate Fact from Fiction and Creates Ability to Make Informed Decisions**

Science helps understand why not to take information for granted and just agree with it because somebody says so. It enables learners to separate fact from fiction and examine multiple sources for the information they need.

## Teaches You How to conserve Natural Resources

Science helps you to learn about how the earth functions, and how to make use of natural resources. It also teaches you how the lack of these resources affects living things, and how you can conserve these resources.

## Instills Survival Skills

Science helps you learn about the various weather conditions, and helps you distinguish between normal weather and dangerous weather. With this knowledge, you can stay alert about natural disasters or survive the disaster. Almost everything that a person does requires a basic knowledge of science, and logical reasoning that is based on this subject.

# 8 REASONS WHY KIDS SHOULD SCIENCE MORE

The teachings of science perfectly complement children's natural curiosity and help them to develop important life skills. Here are just a few of those skills:

## 1 CRITICAL THINKING

The ability to thoroughly and objectively evaluate information is one of the greatest skills that you can possess. Critical thinking opens up new pathways of thought in the brain that are vital for a child's cognitive development.

## 2 RESILIENCE

The feeling of accomplishment that comes from conquering difficult subjects gives a child confidence that will last through their entire life. Resilience is now known as one of the most important markers of life success.

## 3 CONSTANTLY LEARN AND IMPROVE

Scientists are constantly trying to disprove *their own* theories in order to improve the validity of their findings. Kids studying science learn to love learning for learning's sake, whether succeeding or failing.

## 4 BECOME A SUPERHERO

Scientists discover things that improve people's lives all of the time, whether they set out to or not. Scientists get to apply their energies and their efforts to causes that really matter to them, and many times see the results firsthand.

## 5 PRESERVES SENSE OF WONDER

Science is about pursuing big questions about the world in very specific ways. In order to be a good scientist, it's vital to maintain the sense of wonder and the curious questioning about the natural world that kids are born with.

## 6 PROVIDES A METHOD OF QUESTIONING

One of the very first things kids learn about science is the Scientific Method, which is about determining what is true by forming hypotheses and testing them with experiments.

## 7 BECOME A BETTER CONSUMER

The ability to intake information claimed to be scientific fact and to evaluate its credibility is important. Children are much more likely to grow up savvy consumers in a world increasingly governed by statistics.

## 8 BECOME A BETTER PERSON

The scientific method of questioning and testing everything is not just for academic research: Through studying science, kids will learn to better their health, to never stop learning, to better understand the world around them, and to find a way to make it better.

