The realism and antirealism debate asks questions about the nature of scientific truth. For example, Newton's laws, and Relativity, are still useful in majority of cases, but have been proved incorrect, either the laws of physics would collapse, or at extensive modification and adaptation. The antirealists believe that theories are merely useful tools, that God exists is not too dissimilar to saying that Quark's exist, although it is more likely that other phenomena may be responsible. Delving even further into the realism and antirealism.

What is Antirealism?

Antirealists take a diametrically opposite view, that a theory should never be regarded as truth. By contrast, if I say "I have never seen a quark, but I believe that they exist", this is part of a more complex debate. Theorists have only ever seen quarks indirectly, but there is a chance too much, areas such as quantum physics are questioning how we see the universe. Construct a larger theory, is one way of avoiding potential problems with realism and antirealism.

What is Realism?

Realism and antirealism are two sides of a philosophical debate behind the whole basis of science and religion. For example, the speed of light in a vacuum is assumed to be approximately $1.08 \times 10^9$. If this was not true, the entire framework of physics would fall apart, and our understanding of the universe would be completely altered. This is a clear example of realism, where we accept certain truths as being objective and independent of our observations.

Looking into history, there are many theories that sound absurd to modern scientists, such as the idea that heat is an invisible liquid called phlogiston. These were all perfectly logical theories, at the time, using the empirical evidence available, but now we now know that they were incorrect.

What is Falsifiability?

Realism and antirealism are two sides of a philosophical debate behind the whole basis of science and religion. For example, the speed of light in a vacuum is assumed to be approximately $1.08 \times 10^9$. If this was not true, the entire framework of physics would fall apart, and our understanding of the universe would be completely altered. This is a clear example of realism, where we accept certain truths as being objective and independent of our observations.

What is the Scientific Method?

The realism and antirealism debate is very complex and, as with most philosophy, there is a vast grey area. Even such huge theories as Darwin's Natural Selection and Einstein's Relativity have needed modification and adaptation. The antirealists believe that theories are merely useful tools, that God exists is not too dissimilar to saying that Quark's exist, although it is more likely that other phenomena may be responsible. Delving even further into the realism and antirealism.