Scientific Attitude and Values

FRANCIS JOHN V. SICOSANA
A scientist must be intellectually honest.

This attitude allows a scientist to recognize the work done by other scientists before him. This attitude is also shown by reporting data truthfully.

“HONESTY IS THE FIRST CHAPTER OF THE BOOK WISDOM.”

IF I HAVE SEEN FURTHER IT IS BY STANDING ON THE SHOULDERS OF GIANTS.

-SIR ISAAC NEWTON
A scientist is open minded. Open-mindedness is an attitude that allows a scientist to look at other possibilities.

“The measure of intelligence is the ability to change.”
— Albert Einstein

Evaluate, validate and accept other people’s idea towards a question.

“By all means let's be open-minded, but not so open-minded that our brains drop out.”
— Richard Dawkins
CREATIVE AND CRITICAL THINKER

A scientist can do critical assessment of results and limitations.

This enables a scientist to come up with new concepts which lead to discoveries that traditional scientists have overlooked.

Imagination is more important than knowledge. For while knowledge defines all we currently know and understand, imagination points to all we might yet discover and create.

- Albert Einstein
A scientist is curious about the world.

This attitude/quality-curiosity-enables a scientist to try to discover more about the things around him.

“Curiosity is the very basis of education and if you tell me that curiosity killed the cat, I say only the cat died nobly.”
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These attitudes are very important because it enables a scientist to continue a project despite obstacles and failures.

“NO GUTS, NO GLORY”
A scientist must be objective in declaring results of his/her experiments and Judgment is based on observable phenomena and not influenced by emotions or personal prejudices.

A straight path never leads anywhere except to the objective.

-Andre Gide
A scientist must always consider the precision of his work if it forms a pattern or repeatedly occurring in nature. Lack of precision to a work would mean inconsistency.

Architecture arouses sentiments in man. The architect's task therefore, is to make those sentiments more precise.
The moral, social and personal responsibility and accountability of a scientist to all of his works must be observed.

“GREAT POWER COMES GREAT RESPONSIBILITY”
COLLABORATION AND READINESS TO REACH CONSENSUS

“No Man is an Island”

All people need others criticism for us to know if this can be widely accepted or not.

Two minds are better than one.

The nice thing about teamwork is that you always have others on your side.
Determine what scientific attitude can be observed in this video.