

The World Can Be Understood

**empirical criteria
logical argument
skeptical review
tentative conclusions**

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|--------------------|---|
| rational | - valid, consistent, analytical, coherent, reasonable, likely |
| skeptical | - questioning, developing & conducting valid tests and predictions; peer reviewed |
| empirical | - observation-based standards & facts (observations repeatedly confirmed) |
| logical | - rules for argument avoid irrational habits of thought |
| falsifiable | - testable in a such a way as to be able to be proven incorrect |
| predictive | - theories must make valid predictions |
| tentative | - everything is subject to question and re-interpretation |