

Belief

A statement that is not scientifically provable.
Scientifically disproven beliefs can still be held true.

Ghosts are real

Fact

A basic statement **established** by experiment or observation.

Water freezes at 32 F.

Hypothesis

A tentative statement that can be tested by direct experiment or observation.

The sun will die in 7.5 billion years.

Theory

An **explanation** for why certain laws and facts exist that can be tested to determine its accuracy (A well supported hypothesis)

The universe has been continually expanding outwards since the big bang happened.

Law

A logical relationship between two or more things based on facts and proven hypothesis. (Often expressible as an equation)

$F=ma$

