





## **1.3 NATURE OF NATURE**

The consistency of the laws of nature gives us enormous power to understand distant objects without traveling to them and that is why astronomy is considered an observational science.

## Axioms of science

- > There is no absolute truth
- > All things being equal the simpler explanation is better

Hallmarks of Science Modern science seeks explanations for observed phenomena that rely solely on natural causes. (A scientific model cannot include divine intervention.) Science progresses through the creation and testing of models of nature that explain the observations as simply as possible. (Simplicity = "Occam's razor") A scientific model must make testable predictions about natural phenomena that would force us to revise or abandon the model if the predictions do not agree with observations. (There is no absolute truth) © 2015 Pearson































































Date	Event .
Jan1	The Big Bang
Feb	Milky Way forms
Sept 3	Earth forms
Dec 26	Rise of the dinosaurs
Dec 31(9pm)	Early hominids
Dec 31(11:58pm)	Modern humans evolve
11 seconds ago	Pyramids built
.05 second ago	You were born



