

Name: _____ Period: _____

Science Is/ Science Is Not

Description	Science Is	Science Is NOT	Explanation
Observable			
Based on belief			
Measurable			
Open to change			
Based on faith			
Based on experiments			
Based on authority			
Able to solve all problems			
Made stronger by different types of evidence			
Based on testable predictions			
A study of the natural world			
Rigid			
Based on proof			
Fair			
Disprovable			
Objective			
Biased			
A search for understanding			
Repeatable			
Decided by debate or law			
A collection of facts			
Democratic			
Tentative explanations			
Certain			
Strong theories based on solid evidence			

Science Knowledge Survey

Statement	Agree	Disagree	Explanation/ Example
1. Science is primarily a method for inventing new devices			
2. Science can prove anything, solve any problem, or answer any question			
3. Science is primarily concerned with understanding how the natural world works			
4. Science deals with uncertainties			
5. Astrology (predicting your future based on the stars and planets) is a science			
6. Science requires creativity			
7. Science provides tentative answers to questions			
8. A hypothesis is just an educated guess about anything			
9. Scientists can believe in a supernatural being and still do good science			
10. Science is most concerned with collecting facts			
11. Most engineers and doctors are practicing scientists			
12. Something that is proven scientifically is considered a fact that can no longer be changed			
13. Science can be done poorly			
14. Scientific concepts and discoveries can cause new problems for people			
15. Scientists have solved most of the major mysteries of nature			
16. Science can study things and events from millions of years ago			
17. It is important for all people to understand what science is and how it works			
18. Science often involves trying things just to see what happens			
19. Any experiment done scientifically is accurate and reliable			
20. Scientists often try to disprove their own ideas			
21. Science can be influenced by the race, gender, or religion of a scientist			
22. Different scientists may get different solutions to the same problem			
23. Any study that is based on observations is scientific			
24. Disagreement between scientists is a weakness of science			
25. Scientists assume that nature follows the same rules everywhere			