



Benchmarks Related to NCSS *Standards*

Chapter 11: Common Themes

Scale, grades 6-8

As the complexity of any system increases, gaining an understanding of it depends increasingly on summaries, such as averages and ranges, and on descriptions of typical examples of that system.

Constancy and Change, grades 9-12

In many physical, biological, and social systems, changes in one direction tend to produce opposing (but somewhat delayed) influences, leading to repetitive cycles of behavior.

Models, grades 9-12

The usefulness of a model can be tested by comparing its predictions to actual observations in the real world. But a close match does not necessarily mean that the model is the only “true” model or the only one that would work

Systems, grades 6-8

Any system is usually related to other systems, both internally and externally. Thus a system may be thought of as containing subsystems and as being a subsystem of a larger system.