



## Strand Map: Physical and Conceptual Models and Their Uses

### Introduction

This array of benchmarks leads to the goals in *Science for All Americans* (*SFAA*) that (a) a model of something is a simplified imitation of it that we hope can help us understand it better; (b) a model may have limited usefulness; it may be too simple, too complex for practical use, or may fit observations very well but have no intuitive meaning; and (c) any model may have irrelevant features that intrude on our use of it (*SFAA*, Chapter 11: Common Themes).



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