



# Strand Map: Feedback and Control in Technological Systems

## Introduction

These interconnected sequences of benchmarks lead to the goal in *Science for All Americans (SFAA)* that all designed systems, from the simplest to the most complex, require controls to keep them operating properly. As controls increase in complexity, they too require coordination, which means additional layers of control. But even the most automatic system requires human control at some point (*SFAA*, Chapter 3: The Nature of Technology). Ideas of feedback and control need to be linked to the study of systems. Benchmarks that contribute directly to understanding feedback and control are included in the strand. Precursors to these benchmarks can be found in *Benchmarks for Science Literacy*, Chapter 11, Section A: Systems.



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