



Properties and Structures investigates the physical properties of objects and how their arrangement into structures affects their response to forces.

Course Objectives

- Identify physical properties of objects and the materials that comprise them
- Explore how materials and objects respond to and apply forces
- Explore the difference between dynamic and static situations
- Discover how structural shapes and materials affect stability
- Use prediction and testing as a learning tool
- Assess learning in an ongoing manner

Course Syllabus

Session 1: Properties and Forces

Examine physical properties of objects and the materials that comprise them, and look at the effect of properties on how objects respond to and apply forces. Teaching and learning strategies focus on making and testing predictions.

Session 2: Static Structures

Explore the difference between static structures and dynamic objects and come to understand why static structures can remain stable in spite of the forces they endure. Teaching and learning strategies focus on assessment of learning.

Additional Course Information

15 contact hours

3rd in a series of 3 online courses (elementary / physical science)

Other courses in the series:

1st course: **Motion and Forces in Your World**[†]

2nd course: **Understanding Motion and Force**[†]

A full survey course (45 contact hours), **Teaching Elementary Physical Science**, is also available.

[†] recommended before taking this course

We recommend 2-session courses be taken in order. If this is not possible, it's important to have a basic knowledge of the content and methodology described in the preceding courses.

For information about all Teachers' Domain Professional Development courses, visit

www.TeachersDomain.org/courseinfo



Exemplary practice video in online course

www.TeachersDomain.org/courseinfo
Teachers' Domain Professional Development
WGBH Educational Foundation 125 Western Avenue Boston, MA 02134

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