



STRESSING SILLY PUTTY

IIHS in the Classroom NGSS Standards Alignment

High School

HS-PS2-6

Communicate scientific and technical information about why the molecular-level structure is important in the functioning of designed materials.

HS-ETS1-2

Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.

Middle School

MS-PS2-2

Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object.

MS-ETS1-3

Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solution to better meet the criteria for success.

MS-ETS1-4

Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved

Grades 3-5

5-PS1-3

Make observations and measurements to identify materials based on their properties.

5-PS1-4

Conduct an investigation to determine whether the mixing of two or more substances results in new substances.

5-PS2-1

Support an argument that the gravitational force exerted by Earth on objects is directed down.

MS-ETS1-3

Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.

3-5-ETS1-3

Plan and carry out in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.