



## 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.*