

NGSS Correlations

Touch and See Square SS-900

Elementary

4-PS3-2

Students can use Touch & See Squares to make observations to provide evidence that energy can be transferred from place to place by heat currents.

Middle School

MS-PS3-3

Students can use Touch & See Squares to apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer.

MS-PS3-4

Students can use Touch & See Squares for an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.

High School

HS-PS3-4

Students can use Touch & See Squares to plan and conduct an investigation to provide evidence that the transfer of thermal energy when two components of different temperature are combined within a closed system results in a more uniform energy distribution among the components in the system (Second Law of Thermodynamics).

Suggested Science Idea(s)

DCI/PS3.A

The temperature is a measure of the average kinetic energy of particles of matter. The Touch & See Square creates a beautiful thermal print when acted on by an object, such as your hand. Each color represents a different temperature.

4-PS3-2

Students can place their hand on the Touch & See Square to observe the transfer of heat energy to the surface of the temperature sensitive material. Each color represents a different temperature.

MS-PS3-3

Each color represents a different temperature as students test a device that either minimizes or maximizes thermal energy transfer.

MS-PS3-4

Students can use the Touch & See Square for an investigation to determine the relationships among the energy transferred by different objects.

HS-PS3-4

Students can use the Touch & See Square for an investigation to determine the relationships among the energy transferred by different objects.

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