



MATH-ON-A-STICK SIMPLE MACHINES

While you are visiting the Topsfield Fair, learn a little math along the way!

Math-On-A-Stick Simple Machines at the Topsfield Fair

Topsfield Fair has everything on a stick - even math! While you explore the fairgrounds identify different simple machines that you see. Fill out this game card by listing where you found each simple machine.

Example: The Ferris Wheel in the midway is an example of a wheel & axle machine. Next to "Wheel & Axle," write "Ferris Wheel."

Wedge:

Incline Plane:

Screw:

Pulley:

Wheel & Axle:

Show this completed game card to the Education Shed located in the New Meadows Area.



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Use the following definitions and diagrams to help when looking for simple machines around the Topsfield Fair.

Wedge: A wedge is a simple machine used mainly to separate two objects. A wedge as a tool is used to push two things apart such as the blade of a knife does when it cuts wood.

Incline Plane: A flat surface (plane) that is slanted, or inclined, so it can help move objects across distances. An example of an inclined plane is a ramp.

Screw: A central core that an inclined plane wrapped around it in the shape of a spring to help hold things together and lift or lower things.

Pulley: A pulley is a wheel on an axle or shaft that is designed to support movement and change of direction.

Wheel & Axle: The wheel (or round end) turns with the axle (or cylindrical post) causing movement. For example, a wagon - container rests on top of the axle.



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