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## FOSS Measuring Matter Module Glossary 3<sup>rd</sup> Edition © 2012

air the mixture of gases surrounding Earth (SRB)

baking soda a solid material in the form of a white powder; also called sodium bicarbonate (IG)

balance a measurement tool for finding the mass of objects (IG)

balance base the part of a balance that rests on the table and supports the balance (IG)

**balance beam** the part of a balance that rests on the fulcrum (IG)

**beaker** a tool used to measure volume (IG)

**boiling point** (100°C) the temperature at which water changes to gas (SRB)

**bulb** the round end of a thermometer (IG)

calcium carbonate a solid material; powdered chalk (IG)

capacity the volume of fluid a container can hold when full (IG)

**carbon dioxide**  $(CO^2)$  a gas made of carbon and oxygen (SRB, IG)

**Celsius** (°**C**) the basic unit of temperature in the metric system. Water freezes at 0°C and boils at 100°C. (SRB, IG)

centimeter (cm) a unit in the metric system; one hundredth of a meter (SRB, IG)

chalk a solid material; one form of calcium carbonate (SRB, IG)

change to make different (SRB, IG)

**chemical reaction** an interaction between materials that produces one or more new materials that have different properties than the starting materials (SRB, IG)

circumference the measurement around a round object (IG)

cloudy not clear (SRB, IG)

cold a description of temperature (IG)

condensation the process by which water vapor changes into liquid water, usually on a surface (SRB, IG)

conserve to use carefully and protect (SRB)

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**cooling** decreasing the temperature; can change phase from liquid to solid (IG) **data** information collected during an investigation (IG) **dissolve** to mix a material uniformly into another (SRB, IG) **distance** the amount of space between two points (SRB, IG) earth material any natural resource that makes up Earth, including soil and water (IG) energy the ability to make things happen. Energy can take a number of forms, such as heat and light. (SRB) estimate to make an educated guess about a measurement (SRB, IG) evaporate when water in a material dries up and goes into the air (SRB, IG) evidence data used to support claims. Evidence is based on observation and scientific data. (SRB, IG) **float** to stay on the surface of water because of being less dense than water (SRB, IG) freeze to change from liquid to solid (SRB, IG) **freezing point**  $(0^{\circ}C)$  the temperature at which water becomes a solid (ice) (SRB) fulcrum the pivot point on which a balance beam rests (IG) gas a state of matter with no definite shape or volume; usually invisible (SRB, IG) graduated cylinder a transparent cylinder marked with evenly spaced lines for determining the volumes of liquids (IG) gram (g) the basic unit of mass in the metric system (SRB, IG) heating increasing the temperature; can change phase from solid to liquid or from liquid to gas (IG) **hot** a description of temperature (IG) **kilogram** (kg) a unit in the metric system; 1,000 grams, or the mass of 1 liter of water (IG) **kilometer** (**km**) a unit in the metric system; 1,000 meters (SRB, IG) **length** the distance of something from end to end, usually the longest dimension (IG) liquid a state of matter with no definite shape but a definite volume (SRB, IG) **liter** (**L**) the basic unit of liquid volume in the metric system (SRB, IG) magnet an object that sticks to or attracts iron or steel (IG) FOSS Measuring Matter Module Vocabulary/Glossary Terms, 3<sup>rd</sup> Edition © 2012 2 of 4

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**magnetism** a force that attracts iron and steel (SRB) **mass** the amount of material in something (SRB, IG) matter anything that has mass and takes up space (SRB, IG) **measure** to compare the size, capacity, or mass of an object to a known object or system (SRB, IG) **measurement** the number description of a property of an object or system (SRB, IG) **melt** to change from a solid to a liquid state as a result of warming (SRB, IG) **meter** (**m**) the basic unit of distance or length in the metric system (SRB, IG) **metric system** a measuring system based on multiples of ten (SRB, IG) **milliliter** (**mL**) a unit in the metric system; 1,000 milliliters equals 1 liter (IG) **millimeter (mm)** a unit in the metric system; 1,000 millimeters equals 1 meter (IG) **mixture** two or more materials together (SRB, IG) **natural resource** a material such as soil or water that comes from the natural environment (SRB) **observation** data you collect with one of the five senses (IG) opinion a claim based on belief, not on scientific data or observations (SRB, IG) **phase change** the change from a solid to a liquid, a liquid to a solid, a liquid to a gas, or a gas to a liquid (IG) **pointer** the part of a balance that helps "zero" the balance (IG) **property** something that you can observe about an object or a material. Size, color, shape, texture, and smell are properties. (SRB, IG) rain liquid water that is condensed from water vapor in the atmosphere and falls to Earth in drops (SRB) recycle to use again (SRB) ruler a tool, marked in standard units, used for measuring distance and length (SRB, IG) salt a solid white material that dissolves in water; also known as sodium chloride (SRB, IG) scale something divided into regular spaces to use as a tool for measuring. Rulers and thermometers are both scales. (SRB) screen wire mesh used to separate large and small objects (SRB, IG)

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separate to take apart (SRB, IG) **shape** a property of an object (IG) sink to go under water because of being more dense than water (SRB, IG) solid a state of matter that has a definite shape and volume (SRB, IG) solution a mixture formed when one or more substances dissolve in another (SRB, IG) **span** the distance from one position to another position (IG) standard something that is recognized and used in a measurement system (SRB, IG) state a form of matter. The three common states of matter are solid, liquid, and gas. (SRB, IG) **suspend** to hang in a liquid or gas (IG) syringe a cylinder and piston system used to draw up, measure, and transfer liquids (IG) temperature a measure of how hot or cold matter is (SRB, IG) thermometer a tool used to measure temperature (IG) transfer to pass from one object to another. Heat energy transfers to make objects melt. (SRB) transparent clear (SRB, IG) **unit** a length, volume, or mass used as the basis for a measurement system (SRB, IG) vinegar a clear liquid material (IG) **volume** three-dimensional space (SRB, IG) water cycle the repeating sequence of condensation and evaporation of water on Earth, causing clouds and rain and other forms of precipitation (SRB) water vapor the gaseous state of water (SRB, IG) weigh to find the mass of. An object is weighed to find its mass. (SRB) width the distance of something from end to end, usually the shortest dimension (IG)