



**Annual ring:** A ring of wood showing one year's growth

**Area:** The space inside a flat shape

**Bar graph:** A picture that uses rectangles to show the number of things.

**Category:** A group of things that are alike in some way

**Citizen science:** When regular people help scientists collect large amounts of data, like the number or kinds of birds they see

**Columns:** Lines that go up and down

**Concentric circles:** Two or more circles that have the same center point

**Cricket:** A small jumping insect whose males make a chirping sound by rubbing their back legs together

**Cross section:** The surface or shape that is made when you cut through something

**Data:** Information gathered by observation, questioning, or measuring

**Data set:** A collection of numbers or values related to a particular subject

**Data table:** A chart that lists information in rows and columns

**Diagram:** A drawing or plan that shows the parts of something or how those parts work together

**Equation:** A kind of mathematical sentence that shows that two things are equal with an equals sign (=)

**Eye-level:** The level that is as high as a person's eyes

**Fahrenheit and Celsius:** Standard units of measure for temperature

**Formula:** A mathematical rule, usually written as an equation, that shows the relationship between different quantities or amounts



**Grid:** Network of horizontal (or sideways) and vertical (or up and down) lines that help us locate or organize things

**Herb:** Plant used to season foods. Some common herbs are parsley, basil, and thyme.

**Hexagon:** A shape with six sides and six angles

**Hive:** Where bees live, either made by bees or people

**Honeycomb:** A container made by bees out of wax that they produce to keep their honey

**Horizontal:** Going side to side

**Natural object:** Things in nature, like plants, animals, bugs, and rocks

**Length:** The measurement from top to bottom

**Line plot:** A graph that lets you show data as points on a number line

**Liquid volume:** The amount of space a liquid takes up

**Meniscus line:** The curve of the upper surface of a liquid close to the surface of the container

**Nectar:** Sweet liquid produced by plants

**Observation:** Looking at things carefully using all of your senses and thinking about what you see

**Octagon:** A shape with eight sides and eight angles

**One foot:** 12 inches, the length of a standard ruler

**Orb:** Something shaped like a ball

**Ornithologist:** A scientist that studies birds

**Pattern:** When a design repeats itself

**Pie chart:** Compares slices of a pie for different categories of data

**Pollination:** The spread of pollen from one flowering plant to another, enabling the flowers to grow seeds and fruit

**Polygon:** A shape with many sides

**Quadrant:** One of four parts created when a horizontal and vertical line cross.



**Radials:** The long threads that go from the middle of the web to the outer edge. They are like spokes on a bicycle wheel

**Ratio:** How much you have of one thing compared to another

**Rows:** Lines that go side to side

**Scale:** An idea used in math to make drawings of objects smaller or bigger. It is **ratio** of the length in a drawing of something to the length on the real thing

**Scavenger hunt:** A game where people try to find things on a list

**Senses:** The way our body can observe and understand the world around us. Our five senses are seeing, touching, tasting, smelling and hearing.

**Solution:** A mixture where something is dissolved in water or another substance

**Spiral:** A curve that circles around from a fixed point

**Square foot:** A unit of measure of area that is a square measuring one foot long on each side

**States of matter:** The form things take solid, liquid, or gas/vapor

**Symmetry:** When one half of a something is exactly the same as another half—like a heart or a butterfly

**Tally mark:** A line that means 1, to help you count things

**Temperature:** How hot or cold it is

**Tessellation:** An arrangement of shapes that fit closely together in a repeated pattern without any gaps or overlapping

**Thermometer:** A tool that measures the temperature

**Tree cookie:** A tree cookie is a **cross-section** of a tree trunk

**Unit of measure:** The quantity or amount of something that makes up 1. In time we use seconds, minutes, hours, days, weeks, months, and years to measure. In length, we might use inches or centimeters. These are “**standard**” units because lots of people use them and agree on them.

**Vertical:** Going up and down

**Volume:** The amount of space something takes up



**Weight:** How heavy something is

**Width:** The measurement from side to side

**Word cloud:** Compares data as word of different sizes, with a word in big font representing more of that data than a word in small font

**X-axis and Y-axis:** Names for the places where you put the two types of data we are showing on a graph. X data are shown on the horizontal axis. Y data are shown on the vertical axis.