

GLOSSARY

Adjusted Distance	Distance modified based on wind effects.
Adversity	Difficulties or misfortune.
Aerodynamics	The way objects move through air.
AI (Artificial Intelligence)	A technology that enables computers and machines to simulate human learning, comprehension, problem solving, decision making, creativity and autonomy.
Air pressure	The weight of air above us.
Alloys	A substance composed of two or more elements, where the main constituent is a metal.
Amenities	A desirable or useful feature or facility of a building or place.
Angle	Formed by two lines that meet at a point. The common point of contact is called the vertex of an angle.
Arc	A portion of the boundary of a circle or a curve. It can also be referred to as an open curve.
Area	The total space taken up by a flat (2-D) surface or shape of an object.
Average percentages	The mean value of a set of percentages (Calculated by summing all the percentages and dividing by the number of values).
Averages	A single number or value that best represents a set of data. (the arithmetic mean, which is calculated by summing all the numbers in a set and then dividing that sum by the total count of numbers in the set).
Bachelor's Degree	An undergraduate academic degree awarded by colleges and universities.
Balanced meal	A meal that provides a healthy and nutritious combination of foods in appropriate proportions.
Basket	1) The hoop: the physical structure which is a horizontal metal ring with a net hanging from it. 2) A team's point: When the ball is shot through the hoop and the team scores a point.
BPM	Beats per minute.
Broad jump	The act of jumping as far forward as possible from a standing start, a measure of explosive leg power.
Catapult	A ballistic device used to launch projectiles at a great distance.
Compostable	Able to be made into compost.
Composting	The process of recycling organic materials into an amendment that can be used to enrich soil and plants.
Coordinates	A pair of numbers which are used to determine the position or a shape in a 2-dimensional plane.
Density	The relationship between a substance's mass and volume, calculated as mass divided by volume ($D=m/v$).
Depth perception	The ability to perceive the relative distance of objects in one's visual field.
Drag (Air resistance)	The aerodynamic force that opposes an aircraft's motion through the air.
Durability	The ability of a material or system to withstand wear, pressure, or damage over time.
Eco-friendly	Not harmful to the environment.

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Elasticity	The ability of an object or material to resume its normal shape after being stretched or compressed.
Engineering design process	A series of steps that engineers follow to come up with a solution to a problem.
Eye-hand coordination	The coordinated motor control of eye movement with hand movement – the processing of visual input to guide reaching and grasping.
Fixed Mindset	The belief that abilities, intelligence, and talents are static traits that cannot be changed or improved upon.
Flight Efficiency	How well a plane uses fuel during travel.
Force	A push or pull that can cause the motion of an object to change.
Friction	Force that resists the sliding or rolling of one solid object over another.
Gravity	The force by which a planet or other body draws objects toward its center.
Growth Mindset	The belief that intelligence, abilities, and talents can be developed through dedication, hard work, and learning.
Headwind	Wind blowing against the aircraft.
Heart rate	The speed at which the heart beats.
Innovation	A new method, idea or product.
Launch angle	An angle at which an object is projected into the air relative to the horizontal.
Lift	The component of aerodynamic force that is perpendicular to the flow direction.
Magnus Effect	A physical phenomenon characterized by the generation of a sidewise force on a spinning object moving through a fluid.
Methane emissions	The release of methane gas into the atmosphere from both natural and human-caused sources (like agricultural practices, decay of organic waste or the production of coal, oil and natural gas).
Motion	The continuous change in an object's position over time, relative to a fixed point or other object.
Newton's Laws of Motion	An explanation of the relationship between a physical object and the forces acting upon it.
Nutrition	1) The process of providing or obtaining the food necessary for health and growth. 2) The branch of science that deals with nutrients/nutrition, in humans.
Parachute	A device for slowing the descent of a person or object through the air that consists of a fabric canopy beneath which the person/object is suspended.
Percentage	A number or ratio expressed as a fraction of 100.
Perimeter	The length of a closed boundary that encompasses, surrounds or outlines either a two-dimensional shape or a one-dimensional line.
Plot	To draw on a graph or map - a graphical technique for representing a data set.
Point Guard	A guard position in basketball who is chiefly responsible for running the offense.
Prediction	A possible outcome of a test/statement based on logical reasoning.
Reaction time	A measure of the quickness with which an organism (human) responds to some sort of stimulus.

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Regulations	A rule or directive made and maintained by authority.
Resilience	The capacity to withstand or to recover quickly from difficulties; toughness.
Roster	The list of all players who are part of a team, including both those on the court and those on the bench.
Rotation	The circular movement of an object around an axis or a central point.
Salary cap	An agreement or rule that places a limit on the amount of money that a team can spend on players' salaries.
Sensorimotor skills	A combination of the sensory skills (vision, hearing, touch) and motor skills (coordinated movement) that is the foundation of all learning.
Shot tally	The recorded count of shots taken during a game or event.
Single-stream recycling	A system where all recyclables (like paper, plastic, aluminium) is placed in one bin, which is then sorted at a facility.
Standings	A ranking where teams of a particular league, conference or division are grouped in a chart based on how well each is doing.
STEM occupations	Occupations which generate advancements and create innovations through the application of knowledge and expertise from one/more fields of Science, Technology, Engineering and Mathematics (STEM).
Strength	The ability to apply force and overcome resistance.
Superalloys	Alloys capable of withstanding high temperatures, high stresses, and often highly oxidizing atmospheres.
Sustainable packaging	Eco-friendly product packaging designed to minimize environmental impact.
Tailwind	Wind pushing the airplane forward.
Thrust	The force which moves aircrafts through the air - used to overcome the drag of an airplane or the weight of a rocket.
Trajectory	The path an object follows as it moves through space.
Travel	A violation in a basketball game that occurs when a player holding the ball takes more than a predefined number of steps.
Velocity	The change in position divided by the time of travel.
Vertical jump	The act of jumping upwards into the air, building endurance and strength.
Wages	A fixed regular payment, made by an employer to an employee.
Wingspan	The length or distance from the tip of one of a pair of wings or hands to the other.
Winning percentages	Wins divided by the total number of matches played (a metric that measures the success of an outcome).