

04.07.2025 (Friday)

Dear Parent

Students have to learn the following words for the Spellathon on 24.07.2025 (Thursday).

CLASS - VI
Spellathon No.- 2 (Topic: Agriculture)

S.No.	Words	Meaning	S.No.	Words	Meaning
1	arable	land that is suitable for growing crops	11	irrigation	the artificial application of water to soil or land to assist in the growing of crops
2	apiculture	the practice of beekeeping, especially to produce honey	12	kernel	the edible part of a seed or grain, such as in corn or wheat
3	biomanure	an all-purpose organic plant feed that improves plant health and yield	13	leaching	the process by which nutrients are washed out of soil by rainfall or irrigation, often leading to soil fertility
4	biodiversity	the variety of plant and animal life in a particular habitat	14	mulching	the application of a layer of material on the soil surface
5	composting	the process of breaking down organic matter	15	nematicide	a chemical agent used to kill or suppress nematodes
6	decomposer	organisms such as fungi and bacteria that break down dead organic material	16	oxidation	a chemical reaction involving the loss of electrons often related to changes in soil minerals and nutrients
7	erosion	the process by which soil and nutrients are worn away by wind, water or other natural forces	17	overgrazing	excessive grazing by livestock on a piece of land leading to degradation of vegetation and soil erosion
8	entomology	the scientific study of insects, many of which are important in agriculture as pollinators or pests	18	quinoa	a highly nutritious pseudo-cereal crop
9	germination	the process by which a seed develops into a new plant under suitable conditions of moisture	19	ripening	the final stage of fruit or grain development when the product becomes palatable
10	Humus	a substance made from dead leaves and plants that you put into the ground to help plants grow	20	xerophyte	a plant adapted to survive in little water

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CLASS - VII
Spellathon No.- 2 (Topic: Agriculture)

S.No.	Words	Meaning	S.No.	Words	Meaning
1	agrology	the science and study of soils in relation to crop production	11	insecticide	a chemical substance used to kill or control insects that are harmful to crops
2	anthesis	the period during which a flower is fully open and functional; critical in crop production for pollination	12	juvenility	early phase of plant growth
3	biopesticide	a type of pesticide derived from natural materials such as animals, plants and certain minerals	13	lodging	the bending over of stems near ground level in grain crops, often caused by wind, rain or weak stems
4	baleage	silage made by wrapping partially dried forage in plastic to ferment, preserving its nutrients for livestock feed	14	monoculture	the agricultural practice of growing a single crop over a large area, which can increase efficiency but may lead to soil depletion
5	cultivar	a plant variety that has been produced in cultivation	15	necrosis	the death of plant tissue, usually appearing as brown or black spots on leaves or stems
6	domestication	the process of adapting wild plants and animals for human use, including agriculture, by breeding for desirable traits	16	olericulture	a branch of horticulture that deals with the cultivation, production and marketing of vegetables
7	effluent	wastewater or liquid waste that may need treatment before being released into the environment	17	plasmolysis	a process in plant cells where the plasma membrane pulls away from the cell wall due to water loss
8	edaphology	the branch of soil science that studies the influence of soil on living things, especially plants	18	silage	fermented high moisture stored fodder
9	genotype	the genetic makeup of a plant or organism that determines its traits, such as disease resistance	19	vernalization	the process of exposing seeds or plants to a prolonged period of cold to trigger flowering
10	herbicide	a chemical substance used to kill or control unwanted plants	20	weedicide	a chemical substance used to kill or control unwanted plants

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CLASS - VIII
Spellathon No.- 2 (Topic: Agriculture)

S.No.	Words	Meaning	S.No.	Words	Meaning
1	agronomy	the science of soil management and crop production	11	inoculation	the introduction of beneficial microorganisms into seeds or soil
2	aquaponics	a sustainable method of raising both fish and growing plants without soil	12	kochia	a drought resistant plant sometimes used as forage but also considered an invasive weed
3	biofertilizer	a substance containing living microorganisms which promote the growth of plants by increasing the supply of nutrients	13	lenticel	small, spongy openings in the bank of stems and roots that allow gas exchange between the plant and the environment
4	bioremediation	the use of organisms such as bacteria or plants to remove contaminants from soil or water	14	mycorrhiza	a symbiotic association between fungi and plant roots
5	desilting	the removal of silt from water bodies, reservoirs or canals	15	mycotoxins	toxic compounds produced by certain fungi that can contaminate crops
6	evapotranspiration	the combined process of water evaporation from the soil and transpiration from plants	16	osmosis	the movement of water across a semi-permeable membrane
7	eutrophication	a process caused by excess nutrients entering water bodies	17	orthophosphate	a form of phosphate readily available to plants, often present in fertilizers.
8	epidemiology	the study of disease patterns in plant populations, crucial for controlling agricultural pests	18	tasseling	the stage in maize development when the tassel emerges and releases pollen
9	glyphosate	a widely used herbicide for weed control in agriculture, often associated with genetically modified crops	19	viticulture	the science and practice of growing grapes
10	heterosis	the increased strength or performance of hybrid offspring	20	winnowing	the process of separating grain from chaff using wind or air flow after threshing

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