



# Down to a Science - Life

7-letter bingos on **SCIENCE - LIFE** (biology, genetics, ecology) go down on your board — See also [Body](#), [Animals](#), [Plants](#), [Science lists](#)  
compiled by Jacob Cohen, Asheville Scrabble Club

## A 7s - Life (biology, genetics, ecology)

ABIOSIS	ABIIOSS	absence of life [n -SES]
ABIOTIC	ABCIOT	ABIOSIS, absence of life [adj]
AEROBES	ABEORS	AEROBE, organism that requires oxygen to live [n]
AEROBIC	ABCEIOR	AEROBE, organism that requires oxygen to live [adj]
AGAMETE	AAEEGMT	asexual reproductive cell [n -S]
ALANINE	AAEILNN	amino acid [n -S]
ALANINS	AAILNNS	ALANIN, alanine (amino acid) [n]
ALBINOS	ABILNOS	ALBINO, organism lacking normal pigmentation [n]
ALBUMIN	ABILMNU	simple protein [n -S]
ALEURON	AELNORU	aleurone (protein matter found in seeds of certain plants) [n -S]
ALLELES	AEELLLS	ALLELE, any of several forms of gene [n]
ALLELIC	ACEILLL	ALLELE, any of several forms of gene [adj]
AMEBOID	ABDEIMO	AMEBA, amoeba (unicellular microscopic organism) [adj]
AMIDASE	AADEIMS	enzyme (complex protein) [n -S]
AMIDINS	ADIIMNS	AMIDIN, soluble matter of starch [n]
AMOEBAE	AABEEMO	AMOEBIA, unicellular microscopic organism [n]
AMOEBAN	AABEMNO	AMOEBIA, unicellular microscopic organism [adj]
AMOEBAS	AABEMOS	AMOEBIA, unicellular microscopic organism [n]
AMOEBIC	ABCEIMO	AMOEBIA, unicellular microscopic organism [adj]
AMYLASE	AAELMSY	enzyme (complex protein) [n -S]
AMYLUMS	ALMMSUY	AMYLUM, starch (solid carbohydrate) [n]
ANAGENS	AAEGNNS	ANAGEN, hair growth period [n]
ANATOMY	AAMNOTY	structure of organism [n -MIES]
ANIMALS	AAILMNS	ANIMAL, living organism typically capable of voluntary motion and sensation [n]
ANLAGEN	AAEGLNN	ANLAGE, initial cell structure from which embryonic organ develops [n]
ANLAGES	AAEGLNS	ANLAGE, initial cell structure from which embryonic organ develops [n]
ANOXIAS	AAINOSX	ANOXIA, absence of oxygen [n]
ANTHROS	AHNORST	ANTHRO, anthropology (study of human sociocultural, biological, archaeological, and linguistic characteristics and their development) [n]
ANTIBUG	ABGINTU	effective against bugs [adj]
ANTIGEN	AEGINNT	substance that stimulates production of antibodies [n -S]
ANTISEX	AEINSTX	opposed to sexual activity [adj]
ANUROUS	ANORSUU	having no tail [adj]
APOMICT	ACIMOPT	organism produced by apomixis (type of reproductive process) [n -S]
APYRASE	AAEPRSY	enzyme (complex protein) [n -S]
AQUATIC	AACIQTU	organism, living or growing in or near water [n -S]
ARCHAEA	AAACEHR	large group of microorganisms [n ARCHAEA]
ATAVISM	AAIMSTV	reappearance of genetic characteristic after several generations of absence [n -S]
ATAVIST	AAISTTV	individual displaying atavism [n -S]
AUXESIS	AEISSUX	increase in cell size without cell division [n -SES]
AUXETIC	ACEITUX	substance that promotes auxesis [n -S]
AUXINIC	ACIINUX	AUXIN, substance used to regulate plant growth [adj]
AVIDINS	ADIINSV	AVIDIN, protein found in egg white [n]
AVIONIC	ACIINOV	AVIONICS, science of electronics applied to aviation [adj]
AXONEME	AEEMNOX	part of cilium [n -S]
AZYGOUS	AGOSUYZ	not being one of pair [adj]



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## B 7s - Life (biology, genetics, ecology)

BEASTLY	ABELSTY	resembling beast (animal (living organism typically capable of voluntary motion and sensation)) [adj -LIER, -LIEST]
BENTHON	BEHNNOT	organisms living in benthos [n -S]
BESTIAL	ABEILST	pertaining to beasts (animal (living organism typically capable of voluntary motion and sensation)) [adj]
BIOCHIP	BCHIIOP	hypothetical computer component that uses proteins to store or process data [n -S]
BIOCIDE	BCDEIIO	substance destructive to living organisms [n -S]
BIOFILM	BFIILMO	thin layer of microorganisms [n -S]
BIOFUEL	BEFILOU	fuel composed of biological raw materials [n -S]
BIOGENS	BEGINOS	BIOGEN, hypothetical protein molecule [n]
BIOGENY	BEGINOY	development of life from preexisting life [n -NIES]
BIOHERM	BEHIMOR	mass of marine fossils [n -S]
BIOLOGY	BGILOOY	science of life [n -GIES]
BIOMASS	ABIMOSS	amount of living matter [n -ES]
BIONICS	BCIINOS	science joining biology and electronics [n]
BIONOMY	BIMNOOY	ecology (environmental science) [n -MIES]
BIONTIC	BCIINOT	BIONT, living organism [adj]
BIOPTIC	BCIIOPT	biopsic (pertaining to examination of living tissue) [adj]
BIOTECH	BCEHIOT	applied biology [n -S]
BIOTICS	BCIIOST	life science [n]
BIOTINS	BIINOST	BIOTIN, B vitamin [n]
BIOTOPE	BEIOOPT	stable habitat [n -S]
BIOTRON	BINOORT	climate control chamber [n -S]
BIOTYPE	BEIOPTY	group of genetically similar organisms [n -S]
BIRTHED	BDEHIRT	BIRTH, to originate [v]
BOFFINS	BFFINOS	BOFFIN, scientific expert [n]
BOFFINY	BFFINOY	BOFFIN, scientific expert [adj]
BONEBED	BBDEENO	area containing dinosaur fossils [n -S]

## C 7s - Life (biology, genetics, ecology)

CAPSIDS	ACDIPSS	CAPSID, outer shell of virus particle [n]
CASEASE	AACEESS	enzyme (complex protein) [n -S]
CASEINS	ACEINSS	CASEIN, milk protein [n]
CASEOSE	ACEEOSS	proteose (water-soluble protein) [n -S]
CATAGEN	AACEGNT	hair growth period [n -S]
CAVEOLA	AACELOV	small pit in cell [n -E]
CELLULE	CEELLLU	small cell [n -S]
CERATIN	ACEINRT	keratin (fibrous protein) [n -S]
COCCOID	CCCDIOO	spherical cell or body [n -S]
COLICIN	CCIILNO	antibacterial substance [n -S]
CRINITE	CEIINRT	fossil crinoid [n -S]
CRISTAE	ACEIRST	CRISTA, part of cell [n]
CRYOGEN	CEGNORY	substance for producing low temperatures [n -S]
CYCLASE	ACCELSY	enzyme (complex protein) [n -S]
CYCLINS	CCILNSY	CYCLIN, any of group of proteins that control cell cycle [n]
CYSTEIN	CEINSTY	cysteine (amino acid) [n -S]
CYSTINE	CEINSTY	amino acid [n -S]
CYTOSOL	CLOOSTY	fluid portion of cell material [n -S]



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## D 7s - Life (biology, genetics, ecology)

DENDRON	DENNOR	dendrite (branched part of nerve cell) [n -S]
DIALLEL	ADEILL	pertaining to genetic crossing [adj]
DIOXIDE	DDEIOX	type of oxide (binary compound of oxygen with another element or radical) [n -S]
DIOXIDS	DDIOSX	DIOXID, dioxide (type of oxide (binary compound of oxygen with another element or radical)) [n]
DIPLOID	DDILOP	cell having basic chromosome number doubled [n -S]
DIPLONT	DILNOPT	organism having particular chromosomal structure [n -S]
DISSECT	CDEISST	to cut apart for scientific examination [v -ED, -ING, -S]
DYNEINS	DEINNSY	DYNEIN, enzyme involved in cell movement [n]

## E 7s - Life (biology, genetics, ecology)

ECOLOGY	CEGLOOY	environmental science [n -S]
ECOTONE	CEENOOT	type of ecological zone [n -S]
ECOTYPE	CEEOPY	subspecies adapted to specific environmental conditions [n -S]
ECOZONE	CEENOOZ	regional ecosystem [n -S]
EMBRYON	BEMNORY	embryo (organism in its early stages of development) [n -S]
EMBRYOS	BEMORSY	EMBRYO, organism in its early stages of development [n]
ENOLASE	AEELNOS	enzyme (complex protein) [n -S]
ENZYMES	EEMNSYZ	ENZYME, complex protein [n]
ENZYMIC	CEIMNYZ	ENZYME, complex protein [adj]
EOBIONT	BEINOOT	type of basic organism [n -S]
EPIGEAL	AEEGILP	epigeous (growing on or close to ground) [adj]
EPIGEAN	AEEGINP	epigeous (growing on or close to ground) [adj]
EPIGEIC	CEEGIIP	epigeous (growing on or close to ground) [adj]
EPIMERS	EEIMPRS	EPIMER, type of sugar compound [n]
EPISOME	EEIMOPS	genetic determinant [n -S]
EUGENIC	CEEGINU	EUGENICS, science of hereditary improvement [adj]
EUPLOID	DEILOPU	cell having three or more identical genomes [n -S]
EURYOKY	EKORUYY	euroky (ability of organism to live under variable conditions) [n -KIES]

## F 7s - Life (biology, genetics, ecology)

FERROUS	EFORRSU	pertaining to iron [adj]
FERRUMS	EFMRRSU	FERRUM, iron [n]
FETUSES	EEFSSTU	FETUS, unborn organism carried within womb in later stages of its development [n]
FIBRATE	ABEFIRT	lipid regulator [n -S]
FIBRINS	BFIINRS	FIBRIN, insoluble protein [n]
FIBROIN	BFIINOR	insoluble protein [n -S]
FOMITES	EFIMOST	FOMITE, inanimate object that serves to transmit infectious organisms [n]
FOSSILS	FILOSSS	FOSSIL, remains of animal or plant preserved in earth's crust [n]

## G 7s - Life (biology, genetics, ecology)

GAMETAL	AAEGLMT	GAMETE, mature reproductive cell [adj]
GAMETES	AEEGMST	GAMETE, mature reproductive cell [n]
GAMETIC	ACEGIMT	GAMETE, mature reproductive cell [adj]
GASTRIN	AGINRST	hormone (secretion of endocrine organs) [n]
GEMMULE	EEGLMMU	small gemma [n GEMMU-SLES]
GENETIC	CEEGINT	pertaining to genetics (science of heredity) [adj]
GLIADIN	ADGIILN	simple protein [n -S]
GLOBINS	BGILNOS	GLOBIN, simple protein [n]



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GLUCANS	ACGLNSU	GLUCAN, polymer of glucose [n]
GLYCINE	CEGILNY	amino acid [n -S]
GONIDIC	CDGIINO	GONIDIUM, asexual reproductive cell [adj]
GUANASE	AAEGNSU	enzyme (complex protein) [n -S]
GYRASES	AEGRSSY	GYRASE, enzyme (complex protein) [n]
<b>H 7s - Life (biology, genetics, ecology)</b>		
HABITAT	AABHITT	natural environment of organism [n -S]
HAPLOID	ADHILOP	cell having only one set of chromosomes [n -S]
HAPLONT	AHLNOPT	organism having particular chromosomal structure [n -S]
HAPTENE	AEEHNPT	haptene (substance similar to antigen) [n -S]
HEALTHS	AEHHLST	HEALTH, physical condition of organism [n]
HISTONE	EHINOST	simple protein [n -S]
HORDEIN	DEHINOR	simple protein [n -S]
HYBRIDS	BDHIRSY	HYBRID, offspring of genetically dissimilar parents [n]
HYDRASE	ADEHRSY	enzyme (complex protein) [n -S]
HYGIENE	EEGHINY	science of health [n -S]
<b>I 7s - Life (biology, genetics, ecology)</b>		
ICHNITE	CEHIINT	fossil footprint [n -S]
INOSITE	EIINOST	inositol (alcohol found in plant and animal tissue) [n -S]
INTRONS	INNORST	INTRON, intervening sequence in genetic code [n]
INULASE	AEILNSU	enzyme (complex protein) [n -S]
IRONISE	EIINORS	to ironize (to mix with nutritional iron) [v -D, -SING, -S]
IRONIZE	EIINORZ	to mix with nutritional iron [v -D, -ZING, -S]
ISOFORM	FIMOORS	one of two or more proteins having similar form [n -S]
ISOZYME	EIMOSYZ	type of enzyme (complex protein) [n -S]
<b>J 7s - Life (biology, genetics, ecology)</b>		
<b>K 7s - Life (biology, genetics, ecology)</b>		
KALIUMS	AIKLMSU	KALIUM, potassium [n]
KERATIN	AEIKNRT	fibrous protein [n -S]
<b>L 7s - Life (biology, genetics, ecology)</b>		
LACTASE	AACELST	enzyme (complex protein) [n -S]
LAMININ	AIILMNN	glycoprotein [n -S]
LAMPION	AILMNOP	type of light-generating device [n -S]
LECTINS	CEILNST	LECTIN, protein that binds to sugar molecule [n]
LEGUMIN	EGILMNU	plant protein [n -S]
LETHALS	AEHLLST	LETHAL, death-causing genetic defect [n]
LEUCINE	CEEILNU	amino acid [n -S]
LEUCINS	CEILNSU	LEUCIN, leucine (amino acid) [n]
LEUCITE	CEEILTU	mineral [n -S]
LIGASES	AEGILSS	LIGASE, enzyme (complex protein) [n]
LIPASES	AEILPSS	LIPASE, enzyme (complex protein) [n]
LIPIDES	DEIILPS	LIPIDE, lipid (any of class of fatty substances) [n]
LIPIDIC	CDIILP	LIPID, any of class of fatty substances [adj]
LIPOIDS	DIILOPS	LIPOID, lipid (any of class of fatty substances) [n]
LOCULED	CDELLOU	LOCULE, loculus (small, cell-like chamber) [adj]
LOCULES	CELLOSU	LOCULE, loculus (small, cell-like chamber) [n]



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LOCULUS	CLLOSUU	small, cell-like chamber [n -LI]
LOGGIES	EGILOOS	LOGGIE, bolus of phlegm [n]
LYSINES	EILNSSY	LYSINE, amino acid [n]

## **M 7s - Life (biology, genetics, ecology)**

MALTASE	AAELMST	enzyme (complex protein) [n -S]
MEIOSIS	EIIMOSS	type of cell division [n -SES]
MEIOTIC	CEIIMOT	MEIOSIS, type of cell division [adj]
MITOGEN	EGIMNOT	substance that induces mitosis [n -S]
MITOSES	EIMOSST	MITOSIS, type of cell division [n]
MITOSIS	IIMOSST	type of cell division [n -SES]
MITOTIC	CIIMOTT	MITOSIS, type of cell division [adj]
MONADAL	AADLMNO	MONAD, single-celled organism [adj]
MONADES	ADEMNOS	MONAS, monad (single-celled organism) [n]
MONADIC	ACDIMNO	MONAD, single-celled organism [adj]
MONERAN	AEMNNOR	cellular organism that does not have distinct nucleus [n -S]
MORULAE	AELMORU	MORULA, embryonic mass of cells [n]
MORULAR	ALMORRU	MORULA, embryonic mass of cells [adj]
MORULAS	ALMORSU	MORULA, embryonic mass of cells [n]-S]
MUCOIDS	CDIMOSU	MUCOID, complex protein [n]
MUTAGEN	AEGMNTU	substance that causes biological mutation [n -S]
MUTASES	AEMSSTU	MUTASE, enzyme (complex protein) [n]

## **N 7s - Life (biology, genetics, ecology)**

NEUSTIC	CEINSTU	NEUSTON, aggregate of small aquatic organisms [adj]
NEUSTON	ENNOSTU	aggregate of small aquatic organisms [n -S]
NITROUS	INORSTU	containing nitrogen [adj]
NONKINS	IKNNNOS	NONKIN, ones who are not kin [n]
NUCLEAR	ACELLNU	nuclear (pertaining to nucleus (essential part of cell)) [adj]
NUCLEAR	ACELNRU	pertaining to nucleus (essential part of cell) [adj]
NUCLEIN	CEILNNU	protein found in nuclei [n -S]
NUCLEUS	CELNSUU	essential part of cell [n -ES or -EI]

## **O 7s - Life (biology, genetics, ecology)**

OLEINES	EEILNOS	OLEINE, olein (liquid portion of fat) [n]
OLOGIES	EGILOOS	LOGY, branch of knowledge [n]
OLOGIST	GILOOST	expert in particular ology [n -S]
OOCYSTS	COOSSTY	OOCYST, zygote (cell formed by union of two gametes) [n]
OPERONS	ENOOPRS	OPERON, type of gene cluster [n]
ORBITAL	ABILORT	subdivision of nuclear shell [n -S]
OXYPHIL	HILOPXY	oxyphile (organism that thrives in relatively acid environment) [n -S]
OXYHOME	EMOOSXY	structural unit of cellular cristae [n -S]

## **P 7s - Life (biology, genetics, ecology)**

PANGENE	AEEGNNP	pangen (hypothetical heredity-controlling particle of protoplasm) [n -S]
PANGENS	AEGNNPS	PANGEN, hypothetical heredity-controlling particle of protoplasm [n]
PAPAINS	AAINPPS	PAPAIN, enzyme (complex protein) [n]
PECTASE	ACEEPST	enzyme (complex protein) [n -S]
PEDICEL	CDEEILP	slender basal part of organism [n -S]
PEDICLE	CDEEILP	pedicel (slender basal part of organism) [n -S]



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PEPTIDE	DEEIPPT	combination of amino acids [n -S]
PEPTIDS	DEIPPST	PEPTID, peptide (combination of amino acids) [n]
PEPTONE	EENOPPT	protein compound [n -S]
PLANULA	AALLNPU	free-swimming larva of certain organisms [n -E]
PLASMID	ADILMPS	hereditary structure of cell [n -S]
PLASMIN	AILMNPS	enzyme (complex protein) [n -S]
PLASMON	ALMNOPS	determinant of inheritance believed to exist in cells [n -S]
POLYOMA	ALMOOPY	type of virus (any of class of submicroscopic pathogens) [n -S]
POLYPOD	DLOOPYY	many-footed organism [n -S]
PROLINE	EILNOPR	amino acid [n -S]
PROSECT	CEOPRST	to dissect (to cut apart for scientific examination) [v -ED, -ING, -S]
PROTEAN	AENOPRT	type of protein (nitrogenous organic compound) [n -S]
PROTEID	DEIOPRT	protein (nitrogenous organic compound) [n -S]
PROTEIN	EINOPRT	nitrogenous organic compound [n -S]
PROTIST	IOPRSTT	any of group of unicellular organisms [n -S]
PROTYLE	ELOPRTY	hypothetical substance from which all elements are supposedly derived [n -S]
PROTYLS	LOPRSTY	PROTYL, protyle (hypothetical substance from which all elements are supposedly derived) [n]
PSAMMON	AMMNOPS	group of microorganisms living in waterlogged sands [n -S]

## Q 7s - Life (biology, genetics, ecology)

## R 7s - Life (biology, genetics, ecology)

REAGINS	AEGINRS	REAGIN, type of antibody (body protein that produces immunity against certain microorganisms or toxins) [n]
RELICTS	CEILRST	RELICT, organism surviving in changed environment [n]
RENNASE	AEENNRS	rennin (enzyme (complex protein)) [n -S]
RENNINS	EINNRS	RENNIN, enzyme (complex protein) [n]
RETINES	EEINRST	RETINE, substance in cells that retards growth and cell division [n]
ROTIFER	EFIORRT	microscopic aquatic organism [n -S]

## S 7s - Life (biology, genetics, ecology)

SALINES	AEILNSS	SALINE, salt solution [n]
SAPONIN	AINNOPS	soapy substance obtained from plants [n -S]
SAPROBE	ABEOPRS	organism that derives its nourishment from decaying organic matter [n -S]
SERICIN	CEIINRS	kind of protein [n -S]
SERINES	EEINRSS	SERINE, amino acid [n]
SEROMAS	AEMORSS	SEROMA, postsurgical subcutaneous accumulation of clear fluid [n]
SEROVAR	AEORRSV	group of microorganisms having characteristic set of antigens [n -S]
SOMATIC	ACIMOST	SOMA, body of organism [adj]
SOZINES	EINOSSZ	SOZINE, sozin (type of protein (nitrogenous organic compound)) [n]
SPIREME	EEIMPRS	filament forming part of cell nucleus during mitosis [n -S]
SPIREMS	EIMPRSS	SPIREM, spireme (filament forming part of cell nucleus during mitosis) [n]
SPUTUMS	MPSSTUU	SPUTUM, saliva (fluid secreted by glands of mouth) [n]
STEARIC	ACEIRST	STEARIN, solid portion of fat [adj]
STEARIN	AEINRST	solid portion of fat [n -S]
STENOKY	EKNOSTY	ability of organism to live only under narrow range of conditions [n -KIES]
SUBCELL	BCELLSU	subdivision of cell [n -S]
SUCRASE	ACERSSU	enzyme (complex protein) [n -S]
SYMBION	BIMNOSY	symbiont (organism living in close association with another) [n -S]
SYMBIOT	BIMOSTY	symbiont (organism living in close association with another) [n -S]



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TELOGEN	EEGLNOT	hair growth period [n -S]
THEROID	DEHIORT	resembling beast (animal (living organism typically capable of voluntary motion and sensation)) [adj]
TRISOME	EIMORST	organism having one chromosome in addition to usual diploid number [n -S]
TROPISM	IMOPRST	involuntary response of organism to external stimulus [n -S]
TRYPSIN	INPRSTY	enzyme (complex protein) [n -S]
TRYPTIC	CIPRTTY	TRYPSIN, enzyme (complex protein) [adj]
TUBULIN	BILNTUU	protein that polymerizes to form tiny tubules [n -S]

## **U 7s - Life (biology, genetics, ecology)**

UREASES	AEERSSU	UREASE, enzyme (complex protein) [n]
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## **V 7s - Life (biology, genetics, ecology)**

VALINES	AEILNSV	VALINE, amino acid [n]
VIRUSES	EIRSSUV	VIRUS, any of class of submicroscopic pathogens [n]
VOLUTIN	ILNOTUV	granular substance that is common in microorganisms [n -S]

## **W 7s - Life (biology, genetics, ecology)**

## **X 7s - Life (biology, genetics, ecology)**

## **Y 7s - Life (biology, genetics, ecology)**

## **Z 7s - Life (biology, genetics, ecology)**

ZOECIUM	CEIMOUZ	zoecium (sac secreted and lived in by aquatic organism) [n -IA]
ZYGOTES	EGOSTYZ	ZYGOTE, cell formed by union of two gametes [n]
ZYGOTIC	CGIOTYZ	ZYGOTE, cell formed by union of two gametes [adj]
ZYMASES	AEMSSYZ	ZYMASE, enzyme (complex protein) [n]
ZYMOGEN	EGMNOYZ	substance that develops into enzyme when suitably activated [n -S]
ZYMURGY	GMRUYYZ	branch of chemistry dealing with fermentation [n -GIES]