



Down to a Science - Life

7-letter bingos on **SCIENCE - LIFE (biology, genetics, ecology)** go down on your board – See *Body Language, Animals, Plants, Science lists*
compiled by Jacob Cohen, Asheville Scrabble Club **(updated to NASPA Word List 2018)**

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

ABIOSIS	ABIIOSS	absence of life [n -SES]
ABIOTIC	ABCIIOT	ABIOSIS, absence of life [adj]
AEROBES	ABEEORS	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]
ALBUMIN	ABILMNU	simple protein [n -S]
ALEURON	AELNORU	aleurone (protein matter found in seeds of certain plants) [n -S]
ALLELES	AEELLS	ALLELE, any of several forms of gene [n]
ALLELIC	ACEILL	ALLELE, any of several forms of gene [adj]
AMIDASE	AADEIMS	enzyme (complex protein) [n -S]
AMIDINS	ADIIMNS	AMIDIN, soluble matter of starch [n]
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]
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]
APYRASE	AAEPRSY	enzyme (complex protein) [n -S]
ATAVISM	AAIMSTV	reappearance of genetic characteristic after several generations of absence [n -S]
AUXESIS	AEISSUX	increase in cell size without cell division [n -SES]
AVIDINS	ADIINSV	AVIDIN, protein found in egg white [n]
AVIONIC	ACIINOV	AVIONICS, science of electronics applied to aviation [adj]

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

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	BEHMOR	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]
BOFFINS	BFFINOS	BOFFIN, scientific expert [n]



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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	protease (water-soluble protein) [n -S]
CATAGEN	AACEGNT	hair growth period [n -S]
CAVEOLA	AACELOV	small pit in cell [n -E]
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]
D 7s - Life (biology, genetics, ecology)		
DENDRON	DDENNOR	dendrite (branched part of nerve cell) [n -S]
DIALLEL	ADEILLL	pertaining to genetic crossing [adj]
DIOXIDE	DDEIIOX	type of oxide (binary compound of oxygen with another element or radical) [n -S]
DIOXIDS	DDIIOSX	DIOXID, dioxide (type of oxide (binary compound of oxygen with another element or radical)) [n]
DIPLOID	DDIILOP	cell having basic chromosome number doubled [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	CEEOPYT	subspecies adapted to specific environmental conditions [n -S]
ECOZONE	CEENOOZ	regional ecosystem [n -S]
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]
F 7s - Life (biology, genetics, ecology)		
FERROUS	EFORRSU	pertaining to iron [adj]
FERRUMS	EFMRRSU	FERRUM, iron [n]



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FIBRATE	ABEFIRT	lipid regulator [n -S]
FIBRINS	BFIINRS	FIBRIN, insoluble protein [n]
FIBROIN	BFIINOR	insoluble protein [n -S]
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]
GENETIC	CEEGINT	pertaining to genetics (science of heredity) [adj]
GLIADIN	ADGIILN	simple protein [n -S]
GLOBINS	BGILNOS	GLOBIN, simple protein [n]
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]

H 7s - Life (biology, genetics, ecology)

HAPLOID	ADHILOP	cell having only one set of chromosomes [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]

I 7s - Life (biology, genetics, ecology)

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]

J 7s - Life (biology, genetics, ecology)

K 7s - Life (biology, genetics, ecology)

KALIUMS	AIKLMSU	KALIUM, potassium [n]
KERATIN	AEIKNRT	fibrous protein [n -S]

L 7s - Life (biology, genetics, ecology)

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]



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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]
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)

NITROUS	INORSTU	containing nitrogen [adj]
NONKINS	IKNNNOS	NONKIN, ones who are not kin [n]
NUCLEAL	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	OLOGY, 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]
OXSOME	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]



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PECTASE	ACEEPST	enzyme (complex protein) [n -S]
PEPTIDE	DEEIPPT	combination of amino acids [n -S]
PEPTIDS	DEIPPST	PEPTID, peptide (combination of amino acids) [n]
PEPTONE	EENOPPT	protein compound [n -S]
PLASMID	ADILMPS	hereditary structure of cell [n -S]
PLASMIN	AILMNP	enzyme (complex protein) [n -S]
PLASMON	ALMNOPS	determinant of inheritance believed to exist in cells [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]

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

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

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]

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]
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]
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]

T 7s - Life (biology, genetics, ecology)

TELOGEN	EEGLNOT	hair growth period [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]
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W 7s - Life (biology, genetics, ecology)



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

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

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

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]