



# Down to a Science - Physics

7-letter bingos about **SCIENCE - PHYSICS (physics, astronomy, electronics)** go down on your board  
compiled by Jacob Cohen, Asheville Scrabble Club

## A 7s - Physics (physics, astronomy, electronics)

ABVOLTS	ABLOSTV	ABVOLT, unit of electromotive force [n]
ABWATTS	AABSTTW	ABWATT, unit of power [n]
ACRONIC	ACCINOR	occurring at sunset [adj]
ADWARES	AADERSW	ADWARE, computer software that is provided free but has advertisements [n]
AERIALS	AAEILRS	AERIAL, antenna (metallic device for sending or receiving radio waves) [n]
AEROSAT	AAEORST	satellite for use in air-traffic control [n -S]
AGRAVIC	AACGIRV	pertaining to condition of no gravitation [adj]
AIRWAVE	AAEIRVW	medium of radio and television transmission [n -S]
ALBEDOS	ABDELOS	ALBEDO, ratio of light reflected by planet to that received by it [n]
AMPERES	AEEMPRS	AMPERE, unit of electric current strength [n]
ANOLYTE	AELNOTY	part of electricity-conducting solution nearest anode [n -S]
ANTENNA	AAENNNT	metallic device for sending or receiving radio waves [n -S or -E]
APHOTIC	ACHIOPT	lacking light [adj]
APOGEAL	AAEGLOP	APOGEE, point in orbit of body which is farthest from earth [adj]
APOGEAN	AAEGNOP	APOGEE, point in orbit of body which is farthest from earth [adj]
APOGEES	AEEGOPS	APOGEE, point in orbit of body which is farthest from earth [n]
APOGEIC	ACEGIOP	APOGEE, point in orbit of body which is farthest from earth [adj]
APOLUNE	AELNOPU	point in orbit of body which is farthest from moon [n -S]
APPLETS	AELPPST	APPLET, computer program for simple task [n]
ASSAGAI	AAAGISS	to pierce with light spear [v -ED, -ING, -S]
ASSEGAI	AAEGISS	to assagai (to pierce with light spear) [v -ED, -ING, -S]
ATOMICS	ACIMOST	science dealing with atoms [n]
ATOMIES	AEIMOST	ATOMY, tiny particle [n]
ATOMISM	AIMMOST	theory that universe is composed of simple, indivisible, minute particles [n -S]
ATOMIST	AIMOSTT	adherent of atomism [n -S]
AURORAE	AAEORRU	AURORA, rising light of morning [n]
AURORAL	AALORRU	AURORA, rising light of morning [adj]
AURORAS	AAORRSU	AURORA, rising light of morning [n]
AVIONIC	ACIINOV	AVIONICS, science of electronics applied to aviation [adj]

## B 7s - Physics (physics, astronomy, electronics)

BARCODE	ABCDEOR	automatically scannable geometric identifying code [n -S]
BARYONS	ABNORSY	BARYON, type of subatomic particle [n]
BATTERY	ABERTTY	device for generating electric current [n -RIES]
BEAMING	ABEGIMN	BEAM, to emit in beams (rays of light) [v]
BEEPERS	BEEEPRS	BEEPER, signaling device [n]
BIFOCAL	ABCFILO	type of lens (piece of transparent material used in changing convergence of light rays) [n -S]
BIMORPH	BHIMOPR	device consisting of two crystals cemented together [n -S]
BIOCHIP	BCHIIOP	hypothetical computer component that uses proteins to store or process data [n -S]
BIONICS	BCIINOS	science joining biology and electronics [n]
BIOTECH	BCEHIOT	applied biology [n -S]
BITCOIN	BCIINOT	blockchain currency [n -S]
BITMAPS	ABIMPST	BITMAP, to represent something as bitmap (array of bits) [v]
BITRATE	ABEIRTT	data transmission speed [n -S]
BITWISE	BEIISTW	denoting operator in computer program that deals with bits [adj]
BLOGGED	BDEGGLO	BLOG, to record personal comments on Web site [v]



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BLOGGER	BEGGLOR	one who blogs [n -S]
BOFFINS	BFFINOS	BOFFIN, scientific expert [n]
BOFFINY	BFFINOY	BOFFIN, scientific expert [adj]
BOHRIUM	BHIMORU	radioactive element [n -S]
BOLIDES	BDEILOS	BOLIDE, exploding meteor [n]
BOOTING	BGINOOT	BOOT, to load program into computer [v]
BOSONIC	BCINOOS	BOSON, subatomic particle [adj]
BOTNETS	BENOSTT	BOTNET, network of computers controlled by malware [n]
BUOYANT	ABNOTUY	having buoyancy (tendency to float) [adj]
BUSBARS	ABBRSSU	BUSBAR, type of electrical conductor [n]

## **C 7s - Physics (physics, astronomy, electronics)**

CALORIC	ACCILOR	heat [n -S]
CALORIE	ACEILOR	unit of heat [n -S]
CANDELA	AACDELN	unit of light intensity [n -S]
CAPCOMS	ACCMOPS	CAPCOM, ground operaor who communicates with astronaut [n]
CAPTCHA	AACCHPT	Turing test used to vet website users [n -S]
CATFISH	ACFHIST	to deceive using false online persona [v -ED, -ING, -ES]
CATHODE	ACDEHOT	negatively charged electrode [n -S]
CENTALS	ACELNST	CENTAL, unit of weight [n]
CENTNER	CEENNRT	unit of weight [n -S]
CEPHEID	CDEEHIP	giant star [n -S]
CHAOSSES	ACEHOSS	CHAOS, state of total disorder; confused mass [n]
CHAOTIC	ACCHIOT	CHAOS, state of total disorder; confused mass [adj]
CHARISM	ACHIMRS	charisma (special magnetic appeal) [n -S]
CHIPSET	CEHIPST	set of integrated circuits [n -S]
CHRONON	CHNNOOR	hypothetical unit of time [n -S]
CHYRONS	CHNORSY	CHYRON, type of digital graphic video display [n]
CIPHONY	CHINOPY	electronic scrambling of voice transmissions [n -NIES]
CLASSON	ACLNOSS	subatomic particle [n -S]
CODABLE	ABCDELO	capable of being coded [adj]
CODINGS	CDGINOS	CODING, process of converting into symbols [n]
COHERER	CEEHORR	device used to detect radio waves [n -S]
COLURES	CELORSU	COLURE, astronomical circle [n]
COMETIC	CCEIMOT	pertaining to comet [adj]
COMPUTE	CEMOPTU	to calculate [v -D, -TING, -S]
CONLANG	ACGLNNO	constructed language [n -S]
CONVECT	CCENOTV	to transfer heat by process of circulation [v -ED, -ING, -S]
CORONAE	ACENOOR	CORONA, luminous circle around celestial body [n]
CORONAS	ACNOORS	CORONA, luminous circle around celestial body [n]
COSMISM	CIMMOSS	philosophical theory of cosmic evolution [n -S]
COSMIST	CIMOSST	supporter of cosmism (philosophical theory of cosmic evolution) [n -S]
COULOMB	BCLMOOU	electrical measure [n -S]
CRYOGEN	CEGNORY	substance for producing low temperatures [n -S]
CURITES	CEIRSTU	CURITE, radioactive mineral [n]
CURIUMS	CIMRSUU	CURIUM, radioactive element [n]
CURSORS	CORRSSU	CURSOR, light indicator on computer display [n]



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## D 7s - Physics (physics, astronomy, electronics)

DALTONS	ADLNOST	DALTON, unit of atomic mass [n]
DARKENS	ADEKNRS	DARKEN, to make dark (having little or no light) [v]
DARKEST	ADEKRST	DARK, having little or no light [adj]
DAWNING	ADGINNW	daybreak (first appearance of light in morning) [n -S] / DAWN, to begin to grow light in the morning [v]
DAYSIDE	ADDEISY	sun side of planet or moon [n -S]
DAYSTAR	AADRSTY	planet visible in east just before sunrise [n -S]
DAYTIME	ADEIMTY	day (time between sunrise and sunset) [n -S]
DAZZLED	ADDELZZ	DAZZLE, to blind by bright light [v]
DAZZLER	ADELZZ	one that dazzles (to blind by bright light) [n -S]
DAZZLES	ADELSZZ	DAZZLE, to blind by bright light [v]
DECODED	CDDDEEO	DECODE, to convert coded message into plain language [v]
DECODER	CDDEEOR	one that decodes (to convert coded message into plain language) [n -S]
DECODES	CDDEEOS	DECODE, to convert coded message into plain language [v]
DECRYPT	CDEPRTY	to decode (to convert coded message into plain language) [v -ED, -ING, -S]
DEFRAGS	ADEFGRS	DEFRAG, to eliminate fragmentation in computer file [v]
DEGAUSS	ADEGSSU	to demagnetize [v -ED, -ING, -ES]
DELINKS	DEIKLNs	DELINK, to break connection with [v]
DEORBIT	BDEIORT	to come out of orbit [v -ED, -ING, -S]
DEPERMS	DEEMPRS	DEPERM, to demagnetize [v]
DIATRON	ADINORT	circuitry designed that uses diodes [n -S]
DIGICAM	ACDGIIM	digital camera [n -S]
DIOPTER	DEIOPRT	measure of refractive power [n -S]
DIOPTRE	DEIOPRT	diopter (measure of refractive power) [n -S]
DIPHASE	ADEHIPS	having two phases [adj]
DIPOLAR	ADILOPR	DIPOLE, pair of equal and opposite electric charges [adj]
DIPOLES	DEILOPS	DIPOLE, pair of equal and opposite electric charges [n]
DONGLES	DEGLNOS	DONGLE, device for computer [n]
DUBNIUM	BDIMNUU	radioactive element [n -S]
DUBSTEP	BDEPSTU	type of electronic dance music [n -S]
DYNAMIC	ACDIMNY	Physical force [n -S]
DYNAMOS	ADMNOSY	DYNAMO, generator [n]
DYNODES	DDENOSY	DYNODE, type of electrode [n]

## E 7s - Physics (physics, astronomy, electronics)

EHELLE	CEEEHLL	device for spreading light into its component colors [n -S]
ELECTRO	CEELORT	to make metallic copy of page of type for printing [v -ED, -ING, -S]
EMAILED	ADEEILM	EMAIL, to send message to by computer [v]
ENCODED	CDDEENO	ENCODE, to put into code [v]
ENCODER	CDEENOR	one that encodes (to put into code) [n -S]
ENCODES	CDEENOS	ENCODE, to put into code [v]
ENTROPY	ENOPRTY	thermodynamic measure of disorder [n -PIES]
EQUINOX	EINOQUX	point on celestial sphere [n -ES]
ETOILES	EEILOST	ETOILE, star [n]
EUCRITE	CEEIRTU	type of meteorite [n -S]
EXABYTE	ABEETXY	one quintillion bytes [n -S]
EXCIMER	CEEIMRX	dimer that exists in excited state [n -S]



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EXCITON	CEINOTX	phenomenon occurring in excited crystal [n -S]
<b>F 7s - Physics (physics, astronomy, electronics)</b>		
FACULAE	AACEFLU	FACULA, unusually bright spot on sun's surface [n]
FACULAR	AACFLRU	FACULA, unusually bright spot on sun's surface [adj]
FALLERS	AEFLLRS	FALLER, one that falls (to descend under force of gravity) [n]
FALLING	AFGILLN	FALL, to descend under force of gravity [v]
FALLOUT	AFLLOTU	radioactive debris resulting from nuclear explosion [n -S]
FARADAY	AAADFRY	unit of electricity [n -S]
FARADIC	AACDFIR	pertaining to type of electric current [adj]
FAXABLE	AABEFLX	FAX, to transmit and reproduce by electronic means [adj]
FERMION	EFIMNOR	type of atomic particle [n -S]
FERMIUM	EFIMMRU	radioactive element [n -S]
FERRITE	EEFIRRT	magnetic substance [n -S]
FIRELIT	EFIILRT	lighted by firelight [adj]
FISSION	FIINOSS	to split into parts [v -ED, -ING, -S]
FLARING	AFGILNR	FLARE, to burn with bright, wavering light [v]
FLASHED	ADEFHLS	FLASH, to send forth sudden burst of light [v]
FLASHER	AEFHLSR	one that flashes (to send forth sudden burst of light) [n -S]
FLASHES	AEFHLSS	FLASH, to send forth sudden burst of light [v]
FLUXING	FGILNUX	FLUX, to melt (to change from solid to liquid state by heat) [v]
FOGBOWS	BFGOOSW	FOGBOW, nebulous arc of light sometimes seen in fog [n]
FOGDOGS	DFGGOOS	FOGDOG, fogbow (nebulous arc of light sometimes seen in fog) [n]
FORMULA	AFLMORU	exact method for doing something [n -E, -S]
FREEZES	EEEFRSZ	FREEZE, to become hardened into solid body by loss of heat [v]
FRESNEL	EEFLNRS	type of lens used in lights [n -S]
FUSIONS	FINOSSU	FUSION, act of melting together [n]
<b>G 7s - Physics (physics, astronomy, electronics)</b>		
GAUSSES	AEGSSSU	GAUSS, unit of magnetic induction [n]
GEEKDOM	DEEGKMO	world of geeks [n -S]
GEEKIER	EEEGIKR	GEEKY, socially awkward or unappealing [adj]
GEEKISH	EEGHIKS	geeky (socially awkward or unappealing) [adj]
GENLOCK	CEGKLNO	device for synchronizing different video signals [n -S]
GIGABIT	ABGGIIT	unit of information [n -S]
GIGATON	AGGINOT	unit of weight [n -S]
GILBERT	BEGILRT	unit of magnetomotive force [n -S]
GLARING	AGGILNR	GLARE, to shine with harshly brilliant light [v]
GLINTED	DEGILNT	GLINT, to glitter (to sparkle (to give off or reflect flashes of light)) [v]
GLITTER	EGILRTT	to sparkle (to give off or reflect flashes of light) [v -ED, -ING, -S]
GLOSED	DEGLOSS	GLOSS, to make lustrous (reflecting light evenly and efficiently) [v]
GLOSSER	EGLORSS	one that glosses (to make lustrous (reflecting light evenly and efficiently)) [n -S]
GLOSSES	EGLOSSS	GLOSS, to make lustrous (reflecting light evenly and efficiently) [v]
GLOWING	GGILNOW	GLOW, to emit light and heat [v]
GNOMONS	GMNNOOS	GNOMON, part of sundial [n]
GOOGLED	DEGGLOO	GOOGLE, to use Internet search engine [v]
GOOGLES	EGGLOOS	GOOGLE, to use Internet search engine [v]
GRAMMES	AEGMMRS	GRAMME, gram (unit of mass and weight) [n]



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GRAVITY	AGIRTVY	force of attraction toward earth's center [n -TIES]
<b>H 7s - Physics (physics, astronomy, electronics)</b>		
HADRONS	ADHNORS	HADRON, elementary particle [n]
HAHNIIUM	AHHIMNU	radioactive element [n -S]
HALOING	AGHILNO	HALO, to form halo (ring of light) [v]
HASHTAG	AAGHHST	word or phrase preceded by symbol # that categorizes accompanying text [n]
HASSIUM	AHIMSSU	radioactive element [n -S]
HEADEND	ADDEEHN	facility that receives and distributes communication signals [n -S]
HEATING	AEGHINT	act of making something hot [n -S] / HEAT, to make hot (having high temperature) [v]
HEAVENS	AEEHNSV	HEAVEN, sky [n]
HEAVIER	AEEHIRV	HEAVY, having much weight [adj]
HEAVILY	AEHILVY	HEAVY, having much weight [adv]
HEFTIER	EEFHIRT	HEFTY, heavy (having much weight) [adj]
HEFTILY	EFHILTY	HEFTY, heavy (having much weight) [adv]
HENRIES	EEHINRS	HENRY, unit of inductance [n]
HERTZES	EEHRSTZ	HERTZ, unit of frequency [n]
HOOKUPS	HKOOPSU	HOOKUP, electrical assemblage [n]
HORIZON	HINOORZ	line where sky seems to meet earth [n -S]
HOTLINE	EHILNOT	direct communications system for immediate contact [n -S]
HOTLINK	HIKLNOT	connection between two computer files [n -S]
HOTNESS	EHNOSST	state of being hot (having high temperature) [n -ES]
HOTTEST	EHOSTTT	HOT, having high temperature [adj]
HOTTING	GHINOTT	HOT, to heat (to make hot) [v]
HOTTISH	HHIOSTT	somewhat hot [adj]
HYPERON	EHNOPRY	atomic particle [n -S]
<b>I 7s - Physics (physics, astronomy, electronics)</b>		
INBOXES	BEINOSX	INBOX, window in which electronic mail is displayed [n]
INERTIA	AEIINRT	tendency of body to resist acceleration [n -S or -E]
INFALLS	AFILLNS	INFALL, movement under influence of gravity toward celestial object [n]
INKJETS	EIJKNST	INKJET, printer that spurts ink to form letters [n]
INPHASE	AEHINPS	having matching electrical phases [adj]
IONISED	DEIINOS	IONISE, to ionize (to convert into ions) [v]
IONISER	EIINORS	ionizer (one that ionizes (to convert into ions)) [n -S]
IONISES	EIINOSS	IONISE, to ionize (to convert into ions) [v]
IONIZED	DEIINOZ	IONIZE, to convert into ions [v]
IONIZER	EIINORZ	one that ionizes (to convert into ions) [n -S]
IONIZES	EIINOSZ	IONIZE, to convert into ions [v]
IONOGEN	EGINNOO	compound capable of forming ions [n -S]
ISOCHOR	CHIOORS	isochore (curve used to show relationship between pressure and temperature) [n -S]
ISODOSE	DEIOOSS	pertaining to zones that receive equal doses of radiation [adj]
ISOGONE	EGINOOS	line on map used to show characteristics of earth's magnetic field [n -S]
ISOSPIN	IINOPSS	type of quantum number [n -S]
ISOTONE	EINOOST	type of atom (smallest unit of element) [n -S]
ISOTOPE	EIOOPST	form of element [n -S]
ISOTOPY	IOOPSTY	state of being isotope [n -PIES]

**J 7s - Physics (physics, astronomy, electronics)**



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JOBNAME	ABEJMNO	computer code for job instruction [n -S]
JOYPADS	ADJOPSY	JOYPAD, device with buttons to control computer images [n]
<b>K 7s - Physics (physics, astronomy, electronics)</b>		
KATHODE	ADEHKOT	cathode (negatively charged electrode) [n -S]
KATIONS	AIKNOST	KATION, cation (positively charged ion) [n]
KEYCARD	ACDEKRY	coded card for operating device [n -S]
KEYPADS	ADEKPSY	KEYPAD, small keyboard [n]
KEYPALS	AEKLPSY	KEYPAL, person with whom one corresponds by email [n]
KEYSETS	EEKSSTY	KEYSET, system of finger levers [n]
KEYWORD	DEKORWY	significant word [n -S]
KILOBAR	ABIKLOR	unit of atmospheric pressure [n -S]
KILOBIT	BIIKLOT	unit of computer information [n -S]
KILORAD	ADIKLOR	unit of nuclear radiation [n -S]
KILOTON	IKLNoot	unit of weight [n -S]
KLUDGED	DDEGKLU	KLUDGE, to put together from ill-fitting components [v]
KLUDGES	DEGKLSU	KLUDGE, to put together from ill-fitting components [v]
<b>L 7s - Physics (physics, astronomy, electronics)</b>		
LAMPION	AILMNOP	type of light-generating device [n -S]
LAMPLIT	AILLMPT	lighted by lamp [adj]
LAPTOPS	ALOPPST	LAPTOP, small computer for use on one's lap [n]
LASERED	ADEELRS	LASER, to treat with laser (device that amplifies light waves) [v]
LEPTONS	ELNOPST	LEPTON, subatomic particle [n]
LICHTED	CDEHILT	LICHT, to light (to illuminate) [v]
LIGHTED	DEGHILT	LIGHT, to illuminate [v]
LINEMAN	AEILMNN	one who installs or repairs telephone wires [n -MEN]
LINKBOY	BIKLNOY	man or boy hired to carry torch to light way along dark streets [n -S]
LINKMAN	AIKLMNN	linkboy (man or boy hired to carry torch to light way along dark streets) [n -MEN]
LIQUEFY	EFILQUY	to make or become liquid [v -FIED, -FYING, -FIES]
LIQUIDS	DIILQSU	LIQUID, substance that flows freely [n]
LIQUIDY	DIILQUY	LIQUID, substance that flows freely [adj -DIER, -DIEST]
LIQUIFY	FIILQUY	to liquefy (to make or become liquid) [v -FIED, -FYING, -FIES]
LISTBOX	BILOSTX	box on computer screen that contains list of options [n -ES]
LOGOFFS	FFGLOOS	LOGOFF, logout (act of ending connection with computer system) [n]
LOGOUTS	GLOOSTU	LOGOUT, act of ending connection with computer system [n]
LYRICON	CILNORY	electronic wind instrument [n -S]
<b>M 7s - Physics (physics, astronomy, electronics)</b>		
MAGLEVS	AEGLMSV	MAGLEV, train using magnets to move above the tracks [n]
MAGNETO	AEGMNOT	type of electric generator [n -S]
MAGNETS	AEGMNST	MAGNET, body that possesses the property of attracting iron [n]
MALWARE	AAELMRW	software designed to disable computers [n -S]
MARCONI	ACIMNOR	two-way radio [n -S]
MARTIAN	AAIMNRT	supposed inhabitant of planet Mars [n -S]
MASCONS	ACMNOSS	MASCON, concentration of dense mass beneath moon's surface [n]
MAXWELL	AELLMWX	unit of magnetic flux [n -S]
MEGABAR	AABEGMR	unit of pressure [n -S]
MEGABIT	ABEGIMT	unit of computer information [n -S]



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MEGOHMS	EGHMMOS	MEGOHM, unit of electrical resistance [n]
MELTERS	EELMRST	MELTER, one that melts (to change from solid to liquid state by heat) [n]
MELTING	EGILMNT	MELT, to change from solid to liquid state by heat [v]
MESONIC	CEIMNOS	MESON, subatomic particle [adj]
METATAG	AAEGMTT	HTML tag having information about webpage [n -S]
METEORS	EEMORST	METEOR, small celestial body that enters earth's atmosphere [n]
MICROHM	CHIMMOR	unit of electrical resistance [n -S]
MILLIER	EIILLMR	unit of weight [n -S]
MIRAGES	AEGIMRS	MIRAGE, type of optical illusion [n]
MISCODE	CDEIMOS	to code wrongly [v -D, -DING, -S]
MISDIAL	ADIILMS	to dial wrongly [v -ED, -LLED, -ING, -LLING, -S]
MISKEYS	EIKMSSY	to key into machine incorrectly [v]
MISTBOW	BIMOSTW	fogbow (nebulous arc of light sometimes seen in fog) [n -S]
MOBLOGS	BGLMOOS	MOBLOG, weblog with data posted from cell phone [n]
MODEMED	DDEEMMO	MODEM, to transmit by modem (device for converting signals from one form to another) [v]
MOONBOW	BMNOOOW	rainbow formed by light from moon [n -S]
MOONDOG	DGMNOOO	bright spot in sky formed by moonlight [n -S]
MOONIER	EIMNOOR	MOONY, resembling moon [adj]
MOONLET	ELMNOOT	small satellite [n -S]
MOONLIT	ILMNOOT	lighted by moon [adj]
MOONSET	EMNOOST	setting of moon below horizon [n -S]
MUONIUM	IMMNOUU	electron and positive muon bound together [n -S]

## **N 7s - Physics (physics, astronomy, electronics)**

NAGWARE	AAEGNRW	software that is at first free but often reminds user to pay for it [n -S]
NANOBOT	ABNNOOT	very small self-propelled machine [n -S]
NEBULAE	ABEELNU	NEBULA, cloud-like interstellar mass [n]
NEBULAR	ABELNRU	NEBULA, cloud-like interstellar mass [adj]
NEBULAS	ABELNSU	NEBULA, cloud-like interstellar mass [n]
NEGATON	AEGNNOT	negatron (electron (elementary particle)) [n -S]
NEMATIC	ACEIMNT	liquid crystal in particular phase [n -S]
NERDIER	DEEINRR	NERDY, socially inept [adj]
NERDISH	DEHINRS	NERD, socially inept person [adj]
NETBOOK	BEKNOOT	small portable computer [n -S]
NETIZEN	EEINNTZ	frequent user of Internet [n -S]
NETSURF	EFNRSTU	to browse Internet for information [v -ED, -ING, -S]
NEUTRON	ENNORTU	subatomic particle [n -S]
NEWTONS	ENNOSTW	NEWTON, unit of force [n]
NODICAL	ACDILNO	pertaining to astronomical point [adj]
NUCLEON	CELNNOU	subatomic particle [n -S]
NUCLEUS	CELNSUU	essential part of cell [n -EI, -ES]
NUCLIDE	CDEILNU	species of atom [n -S]
NUTATED	ADENTTU	NUTATE, to exhibit nutation (oscillatory movement of axis of rotating body) [v]
NUTATES	AENSTTU	NUTATE, to exhibit nutation (oscillatory movement of axis of rotating body) [v]

## **O 7s - Physics (physics, astronomy, electronics)**

OERSTED	DEEORST	unit of magnetic intensity [n -S]
OFFLINE	EFFILNO	not connected to computer network [adj]



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OHMAGES	AEGHMOS	OHMAGE, electrical resistance expressed in ohms [n]
OLOGIES	EGILOOS	LOGY, branch of knowledge [n]
OLOGIST	GILOOST	expert in particular ology [n -S]
OPACIFY	ACFIOPY	to make opaque (impervious to light) [v -FIED, -ING, -FIES]
OPAQUER	AEOPQRU	OPAQUE, impervious to light [adj]
ORBITAL	ABILORT	subdivision of nuclear shell [n -S]
ORBITED	BDEIORT	ORBIT, to move or revolve around [v]
ORBITER	BEIORRT	one that orbits (to move or revolve around) [n -S]
ORGANON	AGNNOOR	system of rules for scientific investigation [n -S or -NA]
ORGANUM	AGMNORU	organon (system of rules for scientific investigation) [n -S or -NA]
ORGONES	EGNOORS	ORGONE, postulated energy pervading universe [n]
OSMOLAL	ALLMOOS	OSMOL, unit of osmotic pressure [adj]
OSMOLAR	ALMOORS	osmotic (pertaining to osmosis (form of diffusion of fluid through membrane)) [adj]
OSMOLES	ELMOOSS	OSMOLE, osmol (unit of osmotic pressure) [n]
OSMOSED	DEMOOSS	OSMOSE, to undergo osmosis [v]
OSMOSES	EMOOSSS	OSMOSE, to undergo osmosis [v] / OSMOSIS, form of diffusion of fluid through membrane [n]
OSMOSIS	IMOOSSS	form of diffusion of fluid through membrane [n -SES]
OSMOTIC	CIMOOST	pertaining to osmosis (form of diffusion of fluid through membrane) [adj]
OUTAGES	AEGOSTU	OUTAGE, failure or interruption in use or functioning [n]
OUTBEAM	ABEMOTU	to surpass in beaming [v -ED, -ING, -S OUTBEAMS]
OVERLIT	EILORTV	OVERLIGHT, to light excessively [v]
OVONICS	CINOOSV	OVONIC, electronic device [n]

## **P 7s - Physics (physics, astronomy, electronics)**

PAGINGS	AGGINPS	PAGING, transfer of computer pages [n]
PALMTOP	ALMOPPT	small computer that fits in palm of hand [n -S]
PARSECS	ACEPRSS	PARSEC, unit of astronomical distance [n]
PARTONS	ANOPRST	PARTON, hypothetical atomic particle [n]
PASCALS	AACL PSS	PASCAL, unit of pressure [n]
PAYWALL	AALLPWY	system that prevents access to website without paid subscription [n -S]
PEISING	EGIINPS	PEISE, to weigh (to determine weight of) [v]
PENLITE	EEILNPT	penlight (small flashlight) [n -S]
PENTODE	DEENOPT	type of electron tube [n -S]
PERIGEE	EEEGIPR	point in orbit of celestial body which is nearest to earth [n -S]
PHASERS	AEHPRSS	PHASER, type of science-fiction weapon [n]
PHISHED	DEHHIPS	PHISH, to engage in phishing [v]
PHISHER	EHHIPRS	one that phishes (to engage in phishing) [n -S]
PHISHES	EHHIPSS	PHISH, to engage in phishing [v]
PHOEBUS	BEHOPSU	sun [n -ES]
PHONICS	CHINOPS	science of sound [n]
PHONING	GHINNOP	PHONE, to telephone [v]
PHONONS	HNNOOPS	PHONON, quantum of vibrational energy [n]
PHOTICS	CHIOPST	science of light [n]
PHOTINO	HINOOPT	hypothetical elementary particle [n -S]
PHOTONS	HNOOPST	PHOTON, elementary particle [n]
PINSPOT	INOPPST	to illuminate with tight spotlight [v -TTED, -TTING, -S]
PLANETS	AELNPST	PLANET, celestial body [n]





# Down to a Science - Physics

7-letter bingos about **SCIENCE - PHYSICS (physics, astronomy, electronics)** go down on your board  
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PLENISM	EILMNPS	doctrine that space is fully occupied by matter [n -S]
PLENIST	EILNPST	advocate of plenism (doctrine that space is fully occupied by matter) [n -S]
PLENUMS	ELMNPSU	PLENUM, space considered as fully occupied by matter [n]
PODCAST	ACDOPST	to make program available in digital format for download over Internet [v PODCAST or -ED, -ING, -S]
POLARON	ALNOOPR	type of electron (elementary particle) [n -S]
POTLINE	EILNOPT	row of electrolytic cells [n -S]
POWERED	DEEOPRW	POWER, to provide with means of propulsion [v]
PREAMPS	AEMPPRS	PREAMP, amplifier (device for amplifying (to make larger or more powerful)) [n]
PRECODE	CDEEOPR	to code beforehand [v -D, -DING, -S]
PREHEAT	AEEHPRT	to heat beforehand [v -ED, -ING, -S]
PREWIRE	EEIPRRW	to wire beforehand [v -D, -RING, -S]
PROTONS	NOOPRST	PROTON, subatomic particle [n]
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]
PULSARS	ALPRSSU	PULSAR, celestial source of radio waves [n]

## Q 7s - Physics (physics, astronomy, electronics)

QUANTAL	AALNQTU	pertaining to quantum (fundamental unit of energy) [adj]
QUANTUM	AMNQTUU	fundamental unit of energy [n -TA]
QUASARS	AAQRSSU	QUASAR, distant celestial object emitting strong radio waves [n]
QBYTES	BEQSTUY	QBYTE, sequence of eight quantum bits [n]
QUINTAL	AILNQTU	unit of weight [n -S]
QWERTYS	EQRSTWY	QWERTY, standard keyboard [n]

## R 7s - Physics (physics, astronomy, electronics)

RADIOED	ADDEIOR	RADIO, to transmit by radio (apparatus for wireless communication) [v]
RADIOES	ADEIORS	RADIO, to transmit by radio (apparatus for wireless communication) [v]
RADIUMS	ADIMRSU	RADIUM, radioactive element [n]
RADOMES	ADEMORS	RADOME, domelike device used to shelter radar antenna [n]
RAINBOW	ABINORW	arc of spectral colors formed in sky [n -S]
RAINOUT	AINORTU	atomic fallout occurring in precipitation [n -S]
RASTERS	AERRSST	RASTER, area reproducing images on picture tube of television set [n]
RAVIEST	AEIRSTV	RAVEY, characteristic of rave (all-night dance party with fast electronic music) [adj]
RAYLIKE	AEIKLRY	resembling narrow beam of light [adj]
READOUT	ADEORTU	presentation of computer data [n -S]
REBOOTS	BEOORST	REBOOT, BOOT, to load program into computer [v]
RECODED	CDDEEOR	RECODE, CODE, to convert into symbols [v]
RECODES	CDEEORS	RECODE, CODE, to convert into symbols [v]
REFALLS	AEFLRS	REFALL, FALL, to descend under force of gravity [v]
REFRACT	ACEFRRT	to deflect in particular manner, as ray of light [v -ED, -ING, -S]
REGLOSS	EGLORSS	GLOSS, to make lustrous (reflecting light evenly and efficiently) [v -ED, -ING, -ES]
REGLOWS	EGLORSW	REGLOW, GLOW, to emit light and heat [v]
RELUMED	DEELMRU	RELUME, to light again [v]
RELUMES	EELMRSU	RELUME, to light again [v]
REMAILS	AEILMRS	REMAIL, MAIL, to send by governmental postal system [v]
REMELTS	EELMRST	REMELT, MELT, to change from solid to liquid state by heat [v]
REPOWER	EEOPRRW	POWER, to provide with means of propulsion [v -ED, -ING, -S]
RESHINE	EEHINRS	SHINE, to emit light [v -ED or -HONE, -NING, -S]



# Down to a Science - Physics

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RETWEET	EEERTTW	to tweet message again [v -ED, -ING, -S]
REWEIGH	EEGHIRW	WEIGH, to determine weight of [v -ED, -ING, -S]
ROBOTIC	BCIOORT	ROBOT, humanlike machine that performs various functions [adj]
ROBOTRY	BOORRTY	science of robots [n -RIES]
ROCKETS	CEKORST	ROCKET, to convey by means of rocket (device propelled by reaction of escaping gases) [v]
RONTGEN	EGNNORT	roentgen (unit of radiation dosage) [n -S]
ROOTKIT	IKOORTT	software that enables unauthorized access to computer [n -S]

## **S 7s - Physics (physics, astronomy, electronics)**

SAROS	AEORSSS	SAROS, eclipse cycle of sun and moon [n]
SATCOMS	ACMOSST	SATCOM, satellite communications [n]
SCALARS	AACLRSS	SCALAR, mathematical quantity possessing only magnitude [n]
SCIENCE	CCEEINS	department of systematized knowledge [n -S]
SCROLLS	CLLORSS	SCROLL, to move text across display screen [v]
SEADOGS	ADEGOSS	SEADOG, fogbow (nebulous arc of light sometimes seen in fog) [n]
SELSYNS	ELNSSSY	SELSYN, type of remote-control device [n]
SENSORS	ENORSSS	SENSOR, device that receives and responds to stimulus [n]
SFERICS	CEFIRSS	electronic detector of storms [n]
SHEENED	DEEEHNS	SHEEN, to shine (to emit light) [v]
SHINERS	EHINRSS	SHINER, one that shines (to emit light) [n]
SHINIER	EHIINRS	SHINY, filled with light [adj]
SHINING	GHIINNS	SHINE, to emit light [v]
SHORTED	DEHORST	SHORT, to cause type of electrical malfunction in [v]
SIEMENS	EEIMNSS	unit of electrical conductance [n -ES]
SIEVERT	EEIRSTV	unit of ionizing radiation [n -S]
SKYGLOW	GKLOSWY	glow in night sky resulting from urban lights [n -S]
SKYWARD	ADKRSWY	toward sky [adv]
SOLIONS	ILNOOSS	SOLION, electronic detecting and amplifying device [n]
SOLITON	ILNOOST	solitary wave in Physics [n -S]
SOLUNAR	ALNORSU	listing rising and setting times of sun and moon [adj]
SPAMBOT	ABMOPST	computer program that sends out unsolicited e-mail [n -S]
SPAMMED	ADEMMPS	SPAM, to send unsolicited e-mail to large number of addresses [v]
SPAMMER	AEMMPRS	one that spams (to send unsolicited e-mail to large number of addresses) [n -S]
SPARKED	ADEKPRS	SPARK, to give off sparks (small fiery particles) [v]
SPARKLE	AEKLPRS	to give off or reflect flashes of light [v -D, -LING, -S]
SPOTLIT	ILOPSTT	SPOTLIGHT, to light with or as if with spotlight [v]
SPUNKIE	EIKNPSU	light caused by the combustion of marsh gas [n -S]
SPYWARE	AEPRSWY	computer software by which personal information is covertly sent to another computer [n -S]
STARLIT	AILRSTT	lighted by stars [adj]
STARRED	ADERRST	STAR, to shine as star (natural luminous body visible in sky) [v]
STATICS	ACISSTT	STATIC, random noise produced in radio or television receiver [n]
STELLAR	AELLRST	pertaining to stars [adj]
STROBED	BDEORST	STROBE, to produce brief, high-intensity flashes of light [v]
STROBES	BEORSST	STROBE, to produce brief, high-intensity flashes of light [v]
SUBCODE	BCDEOSU	subdivision of code [n -S]
SUBCOOL	BCLOOSU	to cool below freezing point without solidification [v -ED, -ING, -S]
SUBMENU	BEMNSUU	secondary list of options for computer [n -S]



# Down to a Science - Physics

7-letter bingos about **SCIENCE - PHYSICS (physics, astronomy, electronics)** go down on your board  
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SUBNETS	BENSSTU	SUBNET, system of interconnections within communications system [n]
SUNBATH	ABHNSTU	exposure to sunlight [n -S]
SUNBEAM	ABEMNSU	beam of sunlight [n -S]
SUNDOGS	DGNOSSU	SUNDOG, small rainbow (arc of spectral colors formed in sky) [n]
SUNLESS	ELNSSSU	having no sunlight [adj]
SUNLIKE	EIKLNSU	resembling sun [adj]
SUNNIER	EINNRSU	SUNNY, filled with sunlight [adj]
SUNNILY	ILNNSUY	SUNNY, filled with sunlight [adv]
SUNRAYS	ANRSSUY	SUNRAY, ray of sunlight [n]
SUNRISE	EINRSSU	ascent of sun above horizon in morning [n -S]
SUNROOM	MNOORSU	room built to admit great amount of sunlight [n -S]
SUNSETS	ENSSSTU	SUNSET, descent of sun below horizon in evening [n]
SUNSPOT	NOPSSTU	dark spot on surface of sun [n -S]
SUNWARD	ADNRSUW	toward sun [adv]
SYNCOMS	CMNOSSY	SYNCOM, type of communications satellite [n]
SYSTEMS	EMSSSTY	SYSTEM, group of interacting elements forming unified whole [n]
SYZYGAL	AGLSYYZ	SYZYG, configuration of earth, moon, and sun lying in straight line [adj]

## T 7s - Physics (physics, astronomy, electronics)

TABBING	ABBGINT	use of tab key on keyboard [n -S]
TABLING	ABGILNT	setting of data or information in tables (columns) [n -S]
TACHYON	ACHNOTY	theoretical subatomic particle [n -S]
TAPINGS	AGINPST	TAPING, act or instance of recording something on magnetic tape [n]
TARDYON	ADNORTY	subatomic particle that travels slower than speed of light [n -S]
TASKBAR	AABKRST	row of graphical controls on computer screen [n -S]
TECTITE	CEEITTT	tektite (glassy body believed to be of meteoritic origin) [n -S]
TEEVEES	EEEESTV	TEEVEE, television [n]
TEKTITE	EEIKTTT	glassy body believed to be of meteoritic origin [n -S]
TELECOM	CEELMOT	telecommunication [n -S]
TELEFAX	AEEFLTX	to transmit graphic material over telephone lines [v -ED, -ING, -ES]
TELEXED	DEEELTX	TELEX, to send message by type of telegraphic system [v]
TELEXES	EEELSTX	TELEX, to send message by type of telegraphic system [v]
TELLIES	EEILLST	TELLY, television set [n]
TELNETS	EELNSTT	TELNET, to access account over Internet using appropriate procedure [v]
TETRODE	DEEORTT	type of electron tube [n -S]
THERMIC	CEHIMRT	pertaining to heat [adj]
THORONS	HNOORST	THORON, radioactive isotope of radon [n]
TOKAMAK	AAKKMOT	doughnut-shaped nuclear reactor [n -S]
TOKOMAK	AKKMOT	tokamak (doughnut-shaped nuclear reactor) [n -S]
TOOLBAR	ABLOORT	row of icons on computer screen that activate functions [n -S]
TRIODES	DEIORST	TRIODE, type of electron tube [n]
TROLAND	ADLNORT	unit of measurement of retinal response to light [n -S]
TWINKLE	EIKLNTW	to shine with flickering or sparkling light [v -D, -LING, -S]
TWISTOR	IORSTTW	complex variable in descriptions of space-time [n -S]
TYCHISM	CHIMSTY	proposition that chance is operative in universe [n -S]

## U 7s - Physics (physics, astronomy, electronics)

UNCODED	CDDENOU	coded [adj]
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# Down to a Science - Physics

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UPLINKS	IKLNPSU	UPLINK, to transmit (data) to spacecraft or satellite [v]
UPLOADS	ADLOPSU	UPLOAD, to transfer information from small computer to larger computer [v]
UPTIMES	EIMSSTU	UPTIME, time during which machinery is functioning [n]
URANIDE	ADEINRU	uranium (radioactive element) [n -S]
URANIUM	AIMNRUU	radioactive element [n -S]
URANOUS	ANORSUU	pertaining to uranium (radioactive element) [adj]
<b>V 7s - Physics (physics, astronomy, electronics)</b>		
VACUITY	ACITUVY	empty space [n -TIES]
VACUUMS	ACMSUUV	VACUUM, space entirely devoid of matter [n]
VALENCE	ACEELNV	degree of combining power of element or radical [n -S]
VALENCY	ACELNVY	valence (degree of combining power of element or radical) [n -CIES]
VECTORS	CEORSTV	VECTOR, to guide in flight by means of radioed directions [v]
VEEJAYS	AEEJSVY	VEEJAY, announcer on program of music videos [n]
VIDEOED	DDEEIOV	VIDEO, to record visual images on magnetic tape or disc [v]
VLOGGED	DEGGLOV	VLOG, to blog video material [v]
VLOGGER	EGGLORV	one that vlogs (to blog video material) [n -S]
VOCODER	CDEORV	electronic device used in transmitting speech signals [n -S]
VODCAST	ACDOSTV	to make video files available for download over Internet [v VODCAST or -ED, -ING, -S]
VOLTAGE	AEGLOTV	electromotive force expressed in volts [n -S]
VOLTAIC	ACILOTV	VOLTAISM, electricity produced by chemical action [adj]
<b>W 7s - Physics (physics, astronomy, electronics)</b>		
WAREZES	AEERSWZ	WAREZ, illegally copied software [n]
WATTAGE	AAEGTTW	amount of power in terms of watts [n -S]
WAVELET	AEELTVW	small wave [n -S]
WAVICLE	ACEILVW	subatomic particle that can act like both wave and particle [n -S]
WAVIEST	AEISTVW	WAVY, having waves [adj]
WEAKONS	AEKNOSW	WEAKON, subatomic particle [n]
WEBCAMS	ABCEMSW	WEBCAM, camera used for transmitting live images over World Wide Web [n]
WEBCAST	ABCESTW	to transmit sound and images via World Wide Web [v -ED, -ING, -S]
WEBINAR	ABEINRW	live interactive educational presentation conducted on website [n -S]
WEBLOGS	BEGLOSW	WEBLOG, website that contains online personal journal [n]
WEBPAGE	ABEEGPW	single document on World Wide Web [n -S]
WEBSITE	BEEISTW	set of interconnected webpages maintained by individual or organization [n -S]
WEBZINE	BEEINWZ	magazine published on Internet [n -S]
WEIGHED	DEEGHIW	WEIGH, to determine weight of [v]
WELKINS	EIKLNSW	WELKIN, sky [n]
WETWARE	AEERTWW	human brain when considered functionally equivalent to computer [n -S]
WIRETAP	AEIPRTW	to intercept messages by means of concealed monitoring device [v -PED, -PING, -S]
WIREWAY	AEIRWWY	tube for protecting electric wires [n -S]
WIRINGS	GIINRSW	WIRING, system of electric wires [n]
WYSIWYG	GISWWYY	denoting text on display screen that exactly corresponds to its appearance on printout [adj]
<b>X 7s - Physics (physics, astronomy, electronics)</b>		
<b>Y 7s - Physics (physics, astronomy, electronics)</b>		
<b>Z 7s - Physics (physics, astronomy, electronics)</b>		
ZAPPERS	AEPPRSZ	ZAPPER, device that zaps [n]
ZENITHS	EHINSTZ	ZENITH, highest point [n]



# Down to a Science - Physics

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ZODIACS

ACDIOSZ

ZODIAC, imaginary belt encircling celestial sphere