Science Word List

English–Japanese Vocabulary for New York Grades 3–5

Purpose. This list supports Japanese-speaking students and families learning elementary science vocabulary in Grades 3–5. It covers life science, earth and space science, physical science, and science and engineering practices.

How to use it. Begin with the **Core** terms for classroom lessons and readings, then add the Useful terms as students meet them in experiments, diagrams, and science writing.

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Term count by area

Area	Terms
Life Science	47
Earth and Space Science	52
Physical Science	40
Scientific Inquiry and Engineering	33
Total	**172**

Life Science

English	日本語	よみ	Grade	Priority	Student note / use
living thing	生き物	いきもの	3-5	Core	an organism that is alive
organism	生物	せいぶつ	3-5	Core	formal term for a living thing
plant	植物	しょくぶつ	3-5	Core	
animal	動物	どうぶつ	3-5	Core	
habitat	生息地	せいそくち	3-5	Core	place where a living thing lives
environment	環境	かんきょう	3-5	Core	surroundings of a living thing
survive	生き残る	いきのこる	3-5	Core	stay alive
air	空気	くうき	3-5	Core	needed by many living things
water	水	みず	3-5	Core	needed by living things
nutrient	養分	ようぶん	3-5	Useful	food substance that helps living things grow
life cycle	生活環	せいかつかん	3-5	Core	stages of living things as they grow
grow	成長する	せいちょうする	3-5	Core	
develop	発達する	はったつする	3-5	Useful	change as an organism matures
seed	種	たね	3-5	Core	
root	根	ね	3-5	Core	part of a plant under the ground
stem	茎	くき	3-5	Core	
leaf	葉	は	3-5	Core	
flower	花	はな	3-5	Core	
offspring	子	こ	3-5	Useful	young of a plant or animal
reproduce	ふえる	ふえる	3-5	Useful	make more of the same kind
trait	特徴	とくちょう	3-5	Core	observable feature of a living thing
inherited trait	遺伝する特徴	いでんするとくちょう	3-5	Core	trait passed from parent to offspring
learned behavior	学習した行動	がくしゅうしたこうどう	3-5	Useful	behavior acquired from experience
adaptation	適応	てきおう	3-5	Useful	feature or behavior that helps survival
ecosystem	生態系	せいたいけい	3-5	Core	living things and their environment together
food chain	食物連鎖	しょくもつれんさ	3-5	Core	shows who eats whom
producer	生産者	せいさんしゃ	3-5	Core	usually a plant that makes its own food
consumer	消費者	しょうひしゃ	3-5	Core	living thing that eats plants or animals
decomposer	分解者	ぶんかいしゃ	3-5	Useful	living thing that breaks down dead matter
predator	捕食者	ほしょくしゃ	3-5	Useful	animal that hunts other animals
prey	えさになる動物	えさになるどうぶつ	3-5	Useful	animal that is hunted
extinct	絶滅した	ぜつめつした	3-5	Useful	no longer living anywhere on Earth
shelter	すみか	すみか	3-5	Core	place that helps an organism stay safe

sunlight	日光	にっこう	3-5	Core	light from the sun that helps plants grow
sprout	芽が出る	めがでる	3-5	Useful	begin to grow from a seed
camouflage	保護色	ほごしょく	3-5	Useful	color or pattern that helps an organism blend in
scavenger	死んだ生き物を食べる動物	しんだいきものをたべるどうぶつ	3-5	Useful	animal that eats dead plants or animals
germinate	発芽する	はつがする	3-5	Useful	begin to grow from a seed into a new plant
pollination	受粉	じゅふん	3-5	Useful	movement of pollen that helps some plants make seeds
food web	食物網	しょくもつもう	3-5	Useful	network of connected food chains in an ecosystem
herbivore	草食動物	そうしょくどうぶつ	3-5	Useful	animal that eats plants
carnivore	肉食動物	にくしょくどうぶつ	3-5	Useful	animal that eats other animals
omnivore	雑食動物	ざっしょくどうぶつ	3-5	Useful	animal that eats both plants and animals
population	個体群	こたいぐん	3-5	Useful	group of the same kind of organism living in one area
community	生物集団	せいぶつしゅうだん	3-5	Useful	all the different populations living together in one place
hibernation	冬眠	とうみん	3-5	Useful	deep rest some animals take during cold seasons
resource	資源	しげん	3-5	Useful	something living things need or use from their environment

Earth and Space Science

English	日本語	よみ	Grade	Priority	Student note / use
weather	天気	てんき	3-5	Core	conditions outside over a short time
climate	気候	きこう	3-5	Core	usual weather over a long time
temperature	気温	きおん	3-5	Core	how hot or cold something is
forecast	予報	よほう	3-5	Core	prediction of upcoming weather
precipitation	降水	こうすい	3-5	Core	rain snow sleet or hail
water cycle	水の循環	みずのじゅんかん	3-5	Core	movement of water through Earth systems
evaporation	蒸発	じょうはつ	3-5	Core	liquid water changes to gas
condensation	凝結	ぎょうけつ	3-5	Core	water vapor changes to liquid
cloud	雲	くも	3-5	Core	
atmosphere	大気	たいき	3-5	Useful	layer of gases around Earth
wind	風	かぜ	3-5	Core	moving air
humidity	湿度	しつど	3-5	Useful	amount of water vapor in the air
rock	岩石	がんせき	3-5	Core	

soil	土	つち	3-5	Core	
sediment	たい積物	たいせきぶつ	3-5	Useful	small pieces of rock or soil
weathering	風化	ふうか	3-5	Core	breaking down rock into smaller pieces
erosion	侵食	しんしょく	3-5	Core	moving rock or soil from one place to another
deposit	たい積する	たいせきする	3-5	Useful	drop or lay down moved material
landform	地形	ちけい	3-5	Core	feature of Earth's surface
mountain	山	やま	3-5	Core	
valley	谷	たに	3-5	Useful	
plain	平野	へいや	3-5	Useful	large area of flat land
Sun	太陽	たいよう	3-5	Core	
Moon	月	つき	3-5	Core	
star	星	ほし	3-5	Core	
planet	惑星	わくせい	3-5	Core	
solar system	太陽系	たいようけい	3-5	Core	
rotate	自転する	じてんする	3-5	Core	spin on an axis
revolve	公転する	こうてんする	3-5	Core	move around another object
shadow	かげ	かげ	3-5	Core	dark area where light is blocked
pattern	きまり	きまり	3-5	Core	used for repeated natural events
weather map	天気図	てんきず	3-5	Useful	map that shows weather conditions in different places
thermometer	温度計	おんどけい	3-5	Core	tool used to measure temperature
anemometer	風速計	ふうそくけい	3-5	Useful	tool used to measure wind speed
sediment	たい積物	たいせきぶつ	3-5	Useful	small pieces of rock soil or sand moved by water wind or ice
landform	地形	ちけい	3-5	Core	natural feature on Earth's surface
constellation	星座	せいざ	3-5	Useful	group of stars that forms a pattern in the sky
barometer	気圧計	きあつけい	3-5	Useful	tool used to measure air pressure
rain gauge	雨量計	うりょうけい	3-5	Useful	tool used to measure how much rain falls
fossil	化石	かせき	3-5	Core	trace or remains of an ancient living thing preserved in rock
volcano	火山	かざん	3-5	Useful	opening in Earth's surface where melted rock can come out
crust	地殻	ちかく	3-5	Useful	outer solid layer of Earth
moon phase	月の満ち欠け	つきのみちかけ	3-5	Useful	different way the Moon appears to look from Earth over time
drought	干ばつ	かんばつ	3-5	Useful	long time with very little or no rain
flood	洪水	こうずい	3-5	Useful	too much water covering land that is usually dry

canyon	谷峡	きょうこく	3-5	Useful	deep valley with steep sides often cut by a river
plateau	高原	こうげん	3-5	Useful	high area of mostly flat land
delta	三角州	さんかくす	3-5	Useful	landform made where a river drops sediment near its mouth
orbit	軌道	きどう	3-5	Useful	path one object follows around another in space
axis	軸	じく	3-5	Useful	imaginary line a spinning object turns around
waxing moon	満ちていく月	みちていくつき	3-5	Useful	moon that appears to grow larger night by night
waning moon	欠けていく月	かけていくつき	3-5	Useful	moon that appears to grow smaller night by night

Physical Science

English	日本語	よみ	Grade	Priority	Student note / use
matter	物質	ぶっしつ	3-5	Core	anything that has mass and takes up space
solid	固体	こたい	3-5	Core	
liquid	液体	えきたい	3-5	Core	
gas	気体	きたい	3-5	Core	
property	性質	せいしつ	3-5	Core	describes what matter is like
mass	質量	しつりょう	3-5	Core	amount of matter in an object
volume	体積	たいせき	3-5	Core	amount of space matter takes up
texture	手ざわり	てざわり	3-5	Useful	how a surface feels
transparent	透明な	とうめいな	3-5	Core	lets most light pass through
translucent	半透明な	はんとうめいな	3-5	Useful	lets some light pass through
opaque	不透明な	ふとうめいな	3-5	Core	does not let light pass through
force	力	ちから	3-5	Core	a push or a pull
motion	運動	うんどう	3-5	Core	movement of an object
push	押す	おす	3-5	Core	
pull	引く	ひく	3-5	Core	
gravity	重力	じゅうりょく	3-5	Core	force that pulls objects toward Earth
friction	摩擦	まさつ	3-5	Useful	force that slows motion when surfaces rub
magnet	磁石	じしゃく	3-5	Core	
magnetic force	磁力	じりょく	3-5	Useful	force caused by magnets
energy	エネルギー	えねるぎー	3-5	Core	ability to cause change
light	光	ひかり	3-5	Core	
sound	音	おと	3-5	Core	
vibration	振動	しんどう	3-5	Useful	back and forth motion that makes sound
absorb	吸収する	きゅうしゅうする	3-5	Useful	take in a liquid gas or energy

dissolve	溶ける	とける	3-5	Core	mix into a liquid so it seems to disappear
mixture	混合物	こんごうぶつ	3-5	Useful	combination of two or more materials
balance	つり合い	つりあい	3-5	Useful	state when forces are even
electricity	電気	でんき	3-5	Core	form of energy that can make lights and machines work
heat	熱	ねつ	3-5	Core	energy that makes things warmer
reflection	反射	はんしゃ	3-5	Useful	light bouncing off a surface
refraction	屈折	くっせつ	3-5	Useful	bending of light as it moves through different materials
conduct	通す	とおす	3-5	Useful	allow heat or electricity to move through a material
insulator	絶縁体	ぜつえんたい	3-5	Useful	material that does not let heat or electricity move through easily
circuit	回路	かいろ	3-5	Useful	path that electricity can travel through
pitch	音の高低	おとのこうてい	3-5	Useful	how high or low a sound seems
sound wave	音波	おんぱ	3-5	Useful	pattern of moving energy that carries sound
energy transfer	エネルギーの移動	えねるぎーのいどう	3-5	Useful	movement of energy from one object or place to another
open circuit	開いた回路	ひらいたかいろ	3-5	Useful	circuit with a break so electricity cannot flow
closed circuit	閉じた回路	とじたかいろ	3-5	Useful	complete circuit that lets electricity flow
particle	粒子	りゅうし	3-5	Useful	very small piece that matter is made of

Scientific Inquiry and Engineering

English	日本語	よみ	Grade	Priority	Student note / use
observe	観察する	かんさつする	3-5	Core	use senses and tools to notice details
observation	観察	かんさつ	3-5	Core	what you notice and record
question	問い	とい	3-5	Core	starting point for an investigation
predict	予想する	よそうする	3-5	Core	say what you think will happen
investigate	調べる	しらべる	3-5	Core	carry out a science study
evidence	証拠	しょうこ	3-5	Core	information used to support an idea
measure	測る	はかる	3-5	Core	use a tool to find amount size or time
record data	データを記録する	でーたをきろくする	3-5	Core	write down observations and measurements
analyze	分析する	ぶんせきする	3-5	Useful	study data carefully
conclusion	結論	けつろん	3-5	Core	what the investigation shows

model	モデル	もでる	3-5	Core	representation used to explain or show an idea
pattern in data	データのきまり	でーたのきまり	3-5	Useful	regularity you notice in results
design	設計する	せっけいする	3-5	Core	plan how to solve a problem
problem	問題	もんだい	3-5	Core	thing that needs a solution
solution	解決策	かいけつさく	3-5	Core	answer to a design problem
material	材料	ざいりょう	3-5	Core	what something is made from
constraint	条件	じょうけん	3-5	Useful	limit you must work within
criteria	評価の条件	ひょうかのじょうけん	3-5	Useful	rules for judging whether a design works
test	試す	ためす	3-5	Core	check whether a design works
improve	改良する	かいりょうする	3-5	Core	make a design work better
hypothesis	予想した考え	よそうしたかんがえ	3-5	Useful	possible explanation or answer to a science question
fair test	公平な実験	こうへいなじっけん	3-5	Core	test in which only one thing is changed at a time
table	表	ひょう	3-5	Core	organized chart for recording data
prototype	試作品	しさくひん	3-5	Useful	first model of a design to test and improve
redesign	設計し直す	せっけいしなおす	3-5	Useful	change a design after testing to make it work better
data chart	データ表	でーたひょう	3-5	Useful	organized display used to record or compare data
variable	変える条件	かえるじょうけん	3-5	Useful	part of a test that can change
control	同じにする条件	おなじにするじょうけん	3-5	Useful	part of a fair test that stays the same for comparison
communicate results	結果を伝える	けっかをつたえる	3-5	Core	share what an investigation showed using words drawings or data
improvement plan	改良計画	かいりょうけいかく	3-5	Useful	steps for making a design work better after testing
claim	主張	しゅちょう	3-5	Useful	statement that answers a question and can be supported with evidence
reasoning	理由づけ	りゆうづけ	3-5	Useful	thinking that explains how evidence supports a claim
data point	データの１つの値	でーたのひとつのあたい	3-5	Useful	one recorded value in a set of data

Earth and Space Science (sorted)

English	日本語	よみ	Grade	Priority	Student note / use
landform	地形	ちけい	3-5	Core	natural feature on Earth's surface
sediment	たい積物	たいせきぶつ	3-5	Useful	small pieces of rock soil or sand moved by water wind or ice
canyon	谷峡	きょうこく	3-5	Useful	deep valley with steep sides often cut by a river
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volcano	火山	かざん	3-5	Useful	opening in Earth's surface where melted rock can come out
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constellation	星座	せいざ	3-5	Useful	group of stars that forms a pattern in the sky
axis	軸	じく	3-5	Useful	imaginary line a spinning object turns around
Moon	月	つき	3-5	Core	
moon phase	月の満ち欠け	つきのみちかけ	3-5	Useful	different way the Moon appears to look from Earth over time
orbit	軌道	きどう	3-5	Useful	path one object follows around another in space
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solar system	太陽系	たいようけい	3-5	Core	
star	星	ほし	3-5	Core	
Sun	太陽	たいよう	3-5	Core	

waning moon	欠けていく月	かけていくつき	3-5	Useful	moon that appears to grow smaller night by night
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wind	風	かぜ	3-5	Core	moving air

Life Science (sorted)

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animal	動物	どうぶつ	3-5	Core	
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ecosystem	生態系	せいたいけい	3-5	Core	living things and their environment together
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learned behavior	学習した行動	がくしゅうしたこうどう	3-5	Useful	behavior acquired from experience

omnivore	雑食動物	ざっしょくどうぶつ	3-5	Useful	animal that eats both plants and animals
population	個体群	こたいぐん	3-5	Useful	group of the same kind of organism living in one area
predator	捕食者	ほしょくしゃ	3-5	Useful	animal that hunts other animals
prey	えさになる動物	えさになるどうぶつ	3-5	Useful	animal that is hunted
producer	生産者	せいさんしゃ	3-5	Core	usually a plant that makes its own food
resource	資源	しげん	3-5	Useful	something living things need or use from their environment
scavenger	死んだ生き物を食べる動物	しんだいきものをたべるどうぶつ	3-5	Useful	animal that eats dead plants or animals
trait	特徴	とくちょう	3-5	Core	observable feature of a living thing

Physical Science (sorted)

English	日本語	よみ	Grade	Priority	Student note / use
balance	つり合い	つりあい	3-5	Useful	state when forces are even
circuit	回路	かいろ	3-5	Useful	path that electricity can travel through
closed circuit	閉じた回路	とじたかいろ	3-5	Useful	complete circuit that lets electricity flow
conduct	通す	とおす	3-5	Useful	allow heat or electricity to move through a material
electricity	電気	でんき	3-5	Core	form of energy that can make lights and machines work
energy	エネルギー	えねるぎー	3-5	Core	ability to cause change
energy transfer	エネルギーの移動	えねるぎーのいどう	3-5	Useful	movement of energy from one object or place to another
force	力	ちから	3-5	Core	a push or a pull
friction	摩擦	まさつ	3-5	Useful	force that slows motion when surfaces rub
gravity	重力	じゅうりょく	3-5	Core	force that pulls objects toward Earth
heat	熱	ねつ	3-5	Core	energy that makes things warmer
insulator	絶縁体	ぜつえんたい	3-5	Useful	material that does not let heat or electricity move through easily
light	光	ひかり	3-5	Core	
magnet	磁石	じしゃく	3-5	Core	
magnetic force	磁力	じりょく	3-5	Useful	force caused by magnets
motion	運動	うんどう	3-5	Core	movement of an object
open circuit	開いた回路	ひらいたかいろ	3-5	Useful	circuit with a break so electricity cannot flow
pitch	音の高低	おとのこうてい	3-5	Useful	how high or low a sound seems
pull	引く	ひく	3-5	Core	
push	押す	おす	3-5	Core	
reflection	反射	はんしゃ	3-5	Useful	light bouncing off a surface

refraction	屈折	くっせつ	3-5	Useful	bending of light as it moves through different materials
sound	音	おと	3-5	Core	
sound wave	音波	おんぱ	3-5	Useful	pattern of moving energy that carries sound
vibration	振動	しんどう	3-5	Useful	back and forth motion that makes sound
absorb	吸収する	きゅうしゅうする	3-5	Useful	take in a liquid gas or energy
dissolve	溶ける	とける	3-5	Core	mix into a liquid so it seems to disappear
gas	気体	きたい	3-5	Core	
liquid	液体	えきたい	3-5	Core	
mass	質量	しつりょう	3-5	Core	amount of matter in an object
matter	物質	ぶっしつ	3-5	Core	anything that has mass and takes up space
mixture	混合物	こんごうぶつ	3-5	Useful	combination of two or more materials
opaque	不透明な	ふとうめいな	3-5	Core	does not let light pass through
particle	粒子	りゅうし	3-5	Useful	very small piece that matter is made of
property	性質	せいしつ	3-5	Core	describes what matter is like
solid	固体	こたい	3-5	Core	
texture	手ざわり	てざわり	3-5	Useful	how a surface feels
translucent	半透明な	はんとうめいな	3-5	Useful	lets some light pass through
transparent	透明な	とうめいな	3-5	Core	lets most light pass through
volume	体積	たいせき	3-5	Core	amount of space matter takes up

Scientific Inquiry and Engineering (sorted)

English	日本語	よみ	Grade	Priority	Student note / use
constraint	条件	じょうけん	3-5	Useful	limit you must work within
criteria	評価の条件	ひょうかのじょうけん	3-5	Useful	rules for judging whether a design works
design	設計する	せっけいする	3-5	Core	plan how to solve a problem
improve	改良する	かいりょうする	3-5	Core	make a design work better
improvement plan	改良計画	かいりょうけいかく	3-5	Useful	steps for making a design work better after testing
material	材料	ざいりょう	3-5	Core	what something is made from
problem	問題	もんだい	3-5	Core	thing that needs a solution
prototype	試作品	しさくひん	3-5	Useful	first model of a design to test and improve
redesign	設計し直す	せっけいしなおす	3-5	Useful	change a design after testing to make it work better
solution	解決策	かいけつさく	3-5	Core	answer to a design problem

test	試す	ためす	3-5	Core	check whether a design works
analyze	分析する	ぶんせきする	3-5	Useful	study data carefully
claim	主張	しゅちょう	3-5	Useful	statement that answers a question and can be supported with evidence
communicate results	結果を伝える	けっかをつたえる	3-5	Core	share what an investigation showed using words drawings or data
conclusion	結論	けつろん	3-5	Core	what the investigation shows
control	同じにする条件	おなじにするじょうけん	3-5	Useful	part of a fair test that stays the same for comparison
data chart	データ表	でーたひょう	3-5	Useful	organized display used to record or compare data
data point	データの１つの値	でーたのひとつのあたい	3-5	Useful	one recorded value in a set of data
evidence	証拠	しょうこ	3-5	Core	information used to support an idea
fair test	公平な実験	こうへいなじっけん	3-5	Core	test in which only one thing is changed at a time
hypothesis	予想した考え	よそうしたかんがえ	3-5	Useful	possible explanation or answer to a science question
investigate	調べる	しらべる	3-5	Core	carry out a science study
measure	測る	はかる	3-5	Core	use a tool to find amount size or time
model	モデル	もでる	3-5	Core	representation used to explain or show an idea
observation	観察	かんさつ	3-5	Core	what you notice and record
observe	観察する	かんさつする	3-5	Core	use senses and tools to notice details
pattern in data	データのきまり	でーたのきまり	3-5	Useful	regularity you notice in results
predict	予想する	よそうする	3-5	Core	say what you think will happen
question	問い	とい	3-5	Core	starting point for an investigation
reasoning	理由づけ	りゆうづけ	3-5	Useful	thinking that explains how evidence supports a claim
record data	データを記録する	でーたをきろくする	3-5	Core	write down observations and measurements
table	表	ひょう	3-5	Core	organized chart for recording data
variable	変える条件	かえるじょうけん	3-5	Useful	part of a test that can change