

001 **LIFE**

H Hydrogen
the First Spark

002 **NOBLE GAS**

He Helium
the Unburnable Balloon

003 **BLAST**

Li Lithium
the Fizzing Battery

004 **BLAST**

Be Beryllium
the Emerald Sting

005 **CRYSTAL**

B Boron
the Green-Flame Teapot

006 **LIFE**

C Carbon
the Life Spiral

007 **LIFE**

N Nitrogen
the Fertilizer Fog

008 **LIFE**

O Oxygen
the Breath and Burn

009 **ACID**

F Fluorine
the Toothpaste Dragon

Li Lithium

Element 3 · Alkali metal

BLAST Beats **Life** · Weak to **Noble gas**

Battery Surge

Lithium atoms are so small they slide through a battery and carry a charge from one end to the other.

Water Fizz

Lithium is a metal that is dying to dump a leftover bit, and water lets it do that so fast the leftover hydrogen bubbles and pops.

Mood Metal

Tiny amounts of lithium are used as medicine that steadies the brain's signals — a quiet real use, not a joke.

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He Helium

Element 2 · Noble gas

NOBLE GAS Beats **Blast** · Weak to **Crystal** · Resists **Acid**

Voice Squeak

Helium is lighter than air, so it makes the air in your voice-box vibrate faster and the sound comes out higher.

Float Away

Helium is much lighter than the air in a room, so it always floats up.

Won't Burn

Helium atoms are already “finished” and will not join with oxygen, so helium cannot catch fire.

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H Hydrogen

Element 1 · Nonmetal

LIFE Beats **Rare Earth** · Weak to **Blast, Nuclear**

Star Fuel

Stars shine by squeezing hydrogen atoms together until they turn into helium and pour out light.

Water Bond

Two hydrogen atoms lock onto one oxygen atom and that trio is a water molecule.

Lightest Escape

Hydrogen atoms weigh less than any other atom, so hydrogen gas floats up and leaves first.

Bonds: Hydrogen + Oxygen = **Water**

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C Carbon

Element 6 · Nonmetal

LIFE Beats **Rare Earth** · Weak to **Blast, Nuclear**

Endless Bond

Carbon atoms are unusually good at holding hands with each other in long chains, and those chains are what living things are made of.

Diamond Armor

Diamond is carbon atoms packed in the tightest way, which is why diamond is one of the hardest things you can touch.

Coal Breath

Coal and wood are mostly carbon, and when carbon joins with oxygen it burns — that is a campfire.

Bonds: Carbon + Oxygen = **Carbon dioxide**; Carbon + Iron = **Steel**

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B Boron

Element 5 · Metalloid

CRYSTAL Beats **Noble gas** · Weak to **Metal** · Resists **Acid**

Green Flame

If you put boron in a flame, the flame always turns green, so this move is that color.

Heatproof Shell

Boron in glass stops the glass from expanding when it gets hot, so the teapot does not shatter.

Neutron Swallow

Boron atoms catch the tiny invisible bullets inside a reactor so the reactor stays calm.

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Be Beryllium

Element 4 · Alkaline earth metal

BLAST Beats **Life** · Weak to **Noble gas**

Emerald Armor

Real emeralds are a hard beryllium mineral, so the armor is the gem itself.

X-Ray Window

Beryllium is so light that X-rays fly through it, the way they fly through the window on an X-ray tube.

Toxic Dust

Breathing beryllium dust can make people very sick, so the sting is the dust, not a made-up venom.

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F Fluorine

Element 9 · Halogen

ACID Beats **Metal** · Weak to **none**

Electron Greed

Fluorine wants a leftover bit from other atoms more strongly than any other element, so it yanks that bit away.

Glass Etch

A fluorine mix called hydrofluoric acid is one of the only things that can chew a hole in glass.

Never-Stick Cape

Teflon is a fluorine plastic so slippery that eggs and water will not stick to it.

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O Oxygen

Element 8 · Nonmetal

LIFE Beats **Rare Earth** · Weak to **Blast, Nuclear**

Breath of Fire

A flame is just stuff joining with oxygen; no oxygen, no fire.

Rust Bite

Iron joins with oxygen and turns into rust, which is the metal being slowly eaten.

Ozone Shield

High in the sky, ozone (three oxygen atoms stuck together) soaks up the harshest sunlight before it reaches us.

Bonds: Oxygen + Hydrogen = **Water**; Oxygen + Iron = **Rust**; Oxygen + Carbon = **Carbon dioxide**; Oxygen + Silicon = **Sand**

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N Nitrogen

Element 7 · Nonmetal

LIFE Beats **Rare Earth** · Weak to **Blast, Nuclear**

Air Flood

Most of the air is already nitrogen, so this move is just “there is suddenly even more of me.”

Liquid Freeze

When nitrogen is squeezed into a liquid it is colder than a freezer, and that cold fog is what you see pouring from a science-show tank.

Fertilizer Boom

The same nitrogen that helps plants grow can also pop very fast if it is packed as a fertilizer powder — plant food and a bang are the same family of mixes.

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010 NOBLE GAS



Ne Neon
the Night Sign

011 BLAST



Na Sodium
the Salt Lamp

012 BLAST



Mg Magnesium
the White Flare

013 METAL



Al Aluminum
the Foil Can

014 CRYSTAL



Si Silicon
the Sand Brain

015 LIFE



P Phosphorus
the Matchstick Bone

016 LIFE



S Sulfur
the Yellow Volcano

017 ACID



Cl Chlorine
the Pool Ghost

018 NOBLE GAS



Ar Argon
the Welding Mask

Mg

Magnesium

Element 12 · Alkaline earth metal

BLAST

Beats **Life** · Weak to **Noble gas**

Blinding Burn

Magnesium metal burns with a light so white and bright it is used in flares so people can see you.

Light Frame

Magnesium is a strong metal that weighs little, so bikes and planes use it to stay light.

Green Heart

Plants cannot catch sunlight without the magnesium sitting in the middle of chlorophyll.



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Na

Sodium

Element 11 · Alkali metal

BLAST

Beats **Life** · Weak to **Noble gas**

Water Burst

Sodium is dying to dump a leftover bit, and water lets it do that so fast the leftover hydrogen catches fire.

Salt Bond

Sodium grabs onto chlorine and the two atoms lock together as the same table salt you eat.

Orange Lamp

Hot sodium gas always glows that streetlight-orange, so this move is that light.

Bonds: Sodium + Chlorine = Salt



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Ne

Neon

Element 10 · Noble gas

NOBLE GAS

Beats **Blast** · Weak to **Crystal** · Resists **Acid**

Red-Orange Buzz

When electricity runs through neon, the gas always glows that same reddish-orange.

Inert Pose

Neon atoms are already finished, so almost nothing can grab them or change them.

Vacuum Tube

A neon sign only works if the gas is sealed in a glass tube, so this move is “you are in my tube now.”



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P

Phosphorus

Element 15 · Nonmetal

LIFE

Beats **Rare Earth** · Weak to **Blast, Nuclear**

Air Ignite

White phosphorus starts burning all by itself when air touches it.

Bone Light

Bones and teeth are a hard mineral made of calcium and phosphorus stuck together.

ATP Spark

Living cells store energy in a phosphorus molecule called ATP, then snap it to spend the energy.

Bonds: Phosphorus + Calcium = Bone



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Si

Silicon

Element 14 · Metalloid

CRYSTAL

Beats **Noble gas** · Weak to **Metal** · Resists **Acid**

Chip Logic

Computer chips are slices of ultra-pure silicon that can flip tiny switches on and off — that is how phones think.

Glass Body

Window glass is sand (silicon plus oxygen) melted and cooled, so the body is the window.

Quartz Spike

Quartz, granite, and most sand grains are silicon stones, so the Earth's crust is this fighter's spike.

Bonds: Silicon + Oxygen = Sand



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Al

Aluminum

Element 13 · Post-transition metal

METAL

Beats **Nuclear, Crystal** · Weak to **Acid, Rare Earth** · Resists **Blast**

Foil Wrap

Aluminum can be rolled thinner than paper into the foil you wrap leftovers in.

Can Crusher

A soda can is a thin aluminum bottle that is still tough enough to hold fizzy pressure.

Hidden in Clay

In the ground, aluminum is stuck inside a rock called bauxite — you never pick up a nugget of bare aluminum.



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Ar

Argon

Element 18 · Noble gas

NOBLE GAS

Beats **Blast** · Weak to **Crystal** · Resists **Acid**

Weld Wrap

Argon sits between hot metal and the air so oxygen cannot reach the joint and burn it.

Invisible One Percent

Argon is already mixed into every breath you take, and you cannot see it.

Won't React

Argon atoms are already finished, so they almost never join with anything.



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Cl

Chlorine

Element 17 · Halogen

ACID

Beats **Metal** · Weak to **none**

Bleach Burn

Bleach is a chlorine mix that tears germs apart, which is why it disinfects.

Salt Bond

Chlorine is the other half of table salt — it steals sodium's leftover bit and they become the crystals on your fries.

Green Cloud

Chlorine gas is heavier than air, so it sinks and fills a space from the floor up.

Bonds: Chlorine + Sodium = Salt; Chlorine + Hydrogen = Acid



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S

Sulfur

Element 16 · Nonmetal

LIFE

Beats **Rare Earth** · Weak to **Blast, Nuclear**

Volcano Breath

Hot vents spit out yellow sulfur, so the breath is that volcanic yellow.

Rubber Tough

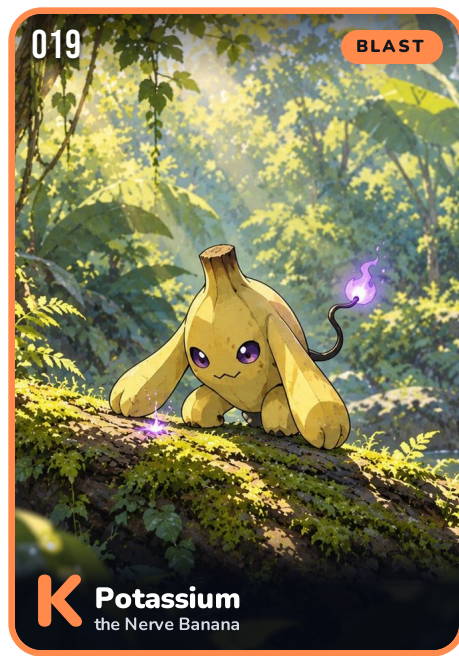
Adding sulfur to rubber (vulcanizing) turns floppy sap into the tough stuff tires are made of.

Rotten Egg

The stinky gas from rotten eggs is hydrogen joined to sulfur — your nose is smelling sulfur.



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Ca

Calcium

Element 20 · Alkaline earth metal

BLAST

Beats **Life** · Weak to **Noble gas**

Skeleton Wall

Bones are hard because they are packed with calcium.

Lime Dust

Chalk, limestone, and cement dust are all calcium rocks crumbling.

Marble Form

Marble is a calcium rock that was squeezed until it became a statue stone.

Bonds: Calcium + Phosphorus = Bone



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K

Potassium

Element 19 · Alkali metal

BLAST

Beats **Life** · Weak to **Noble gas**

Water Burst

Potassium dumps its leftover bit into water even faster than sodium, so the pop is bigger.

Purple Flame

Potassium always paints a flame violet, the way sodium paints one orange.

Nerve Spark

A nerve signal is potassium and sodium atoms swapping places across a cell wall — that swap is the spark.



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