

ENGINEERING CROSSWORD PUZZLES

for students

by Myles Mellor

I dedicate this book to my loving wife, Debby; and my sons Mark, Matt, Winston and Russell, and their families, for all their support through the years.

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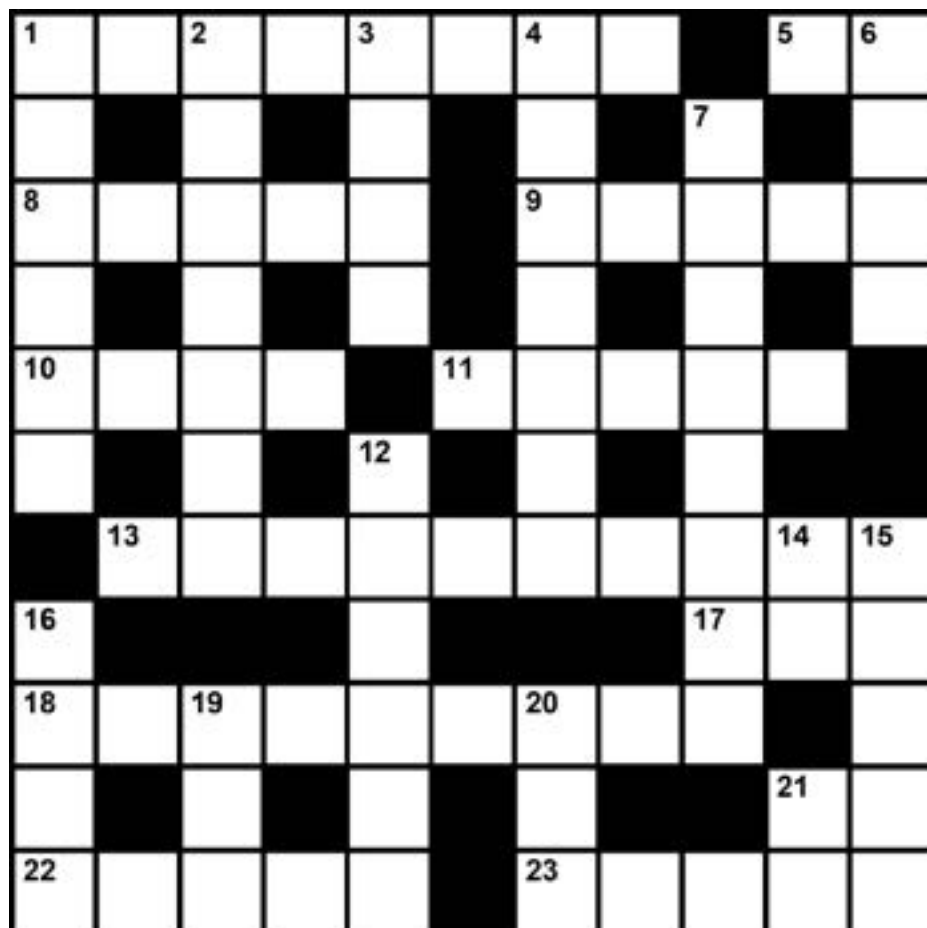
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TABLE OF CONTENTS

DISCOVERE	3
SOCKETS.....	4
DESIGNER.....	5
TOUCHSCREEN.....	6
CABLE	7
GRAPAHENE	8
GRAVITY	9
OVERLOADING.....	10
CONDUIT.....	11
VECTORS.....	12
TORQUE	13
ALGEBRA.....	14
ELASTIC	15
SUSPENSION	16
HYBRIDS.....	17
CALCULUS.....	18
DATABASES	19
NEURONE	20
LIDAR	21
FRICTION	22

SPINDLE	23
AMMETER	24
CYBORGS	25
NUCLEAR.....	26
RECYCLE	27
Answer Key.....	28

DISCOVERE



ACROSS

- 1 New large screen film encouraging girls to become engineers—2 words
- 5 System that can make a house hot or cold
- 8 Engineers learn how to _____ problems
- 9 Building support
- 10 Missing pieces
- 11 Very important, essential
- 13 Recreating a house or building
- 17 Through the means of

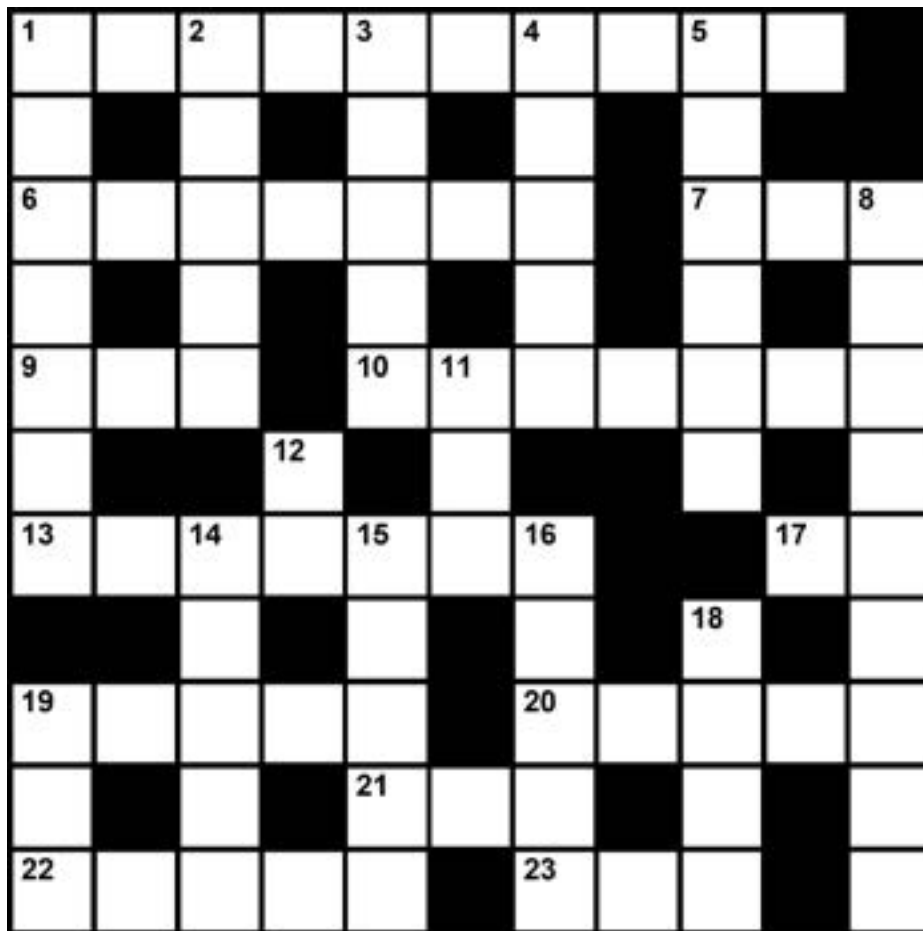
- 18 _____.org, a site encouraging kids to become engineers
- 21 Chemical symbol for silver
- 22 Word for the details of how a building is to be built
- 23 Area under a pitched roof

DOWN

- 1 Plan out
- 2 Shape like an elongated circle
- 3 Intersect, as two lines

- 4 Fill with confidence
- 6 Future ____: a program where you can build your ideal urban area
- 7 Thinking outside -the-box
- 12 Engines
- 14 Symbol for nickel
- 15 Estimate
- 16 Does sums
- 19 Look at and observe
- 20 Engineering degree, for short
- 21 Symbol for aluminum

SOCKETS



ACROSS

- 1 Creating a new device or product
- 6 Electrical devices which receive plugs
- 7 Computer design abbreviation
- 9 Put in
- 10 Procedures
- 13 _____-ion batteries
- 17 Measure of weight
- 19 Electrical safety devices
- 20 Defense Agency's development branch that researches for

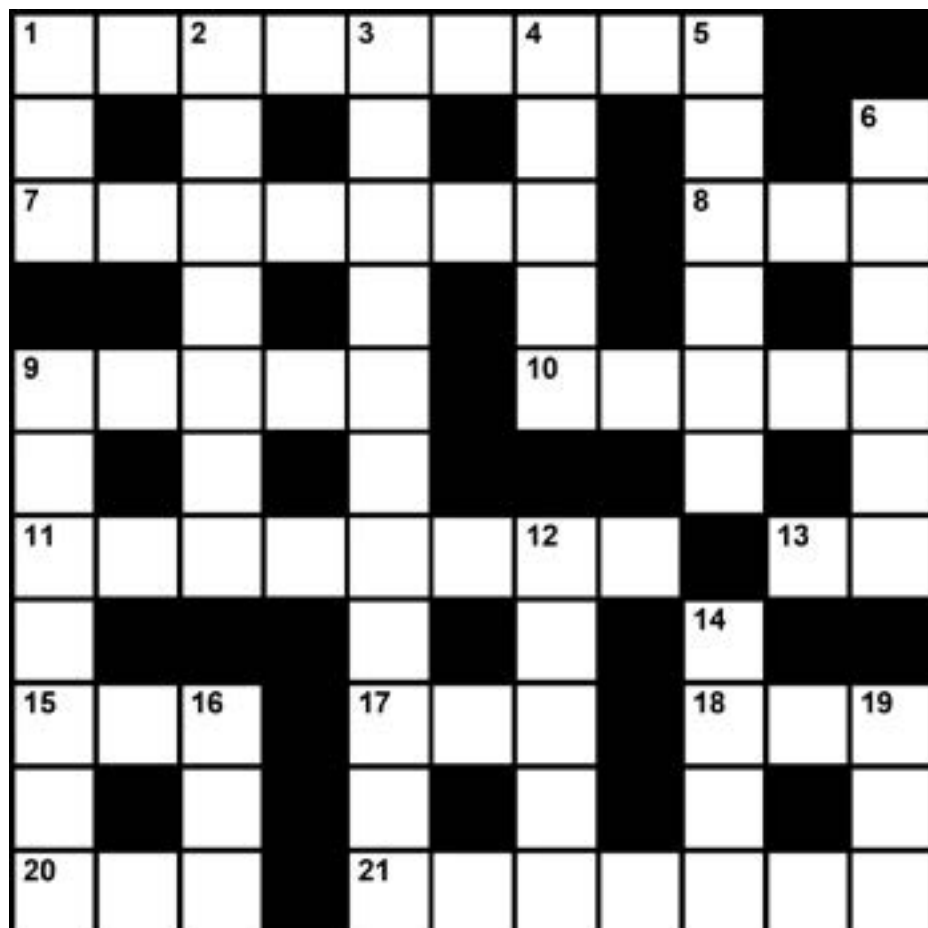
- new technologies and applications
- 21 Function
- 22 Track down
- 23 Energy saving light bulb

DOWN

- 1 Put in place
- 2 Type of battery mainly used as a power source for portable equipment
- 3 Opinions
- 4 Checks out
- 5 Silvery metal used in some batteries

- 8 Instrument panel
- 11 "___ name it!"
- 12 Acidity factor
- 14 Electrical pioneer Nikola whose name has been used in an electric car
- 15 Problem to be solved
- 16 Architect's starting point
- 18 Electrical power network
- 19 Was the right size

DESIGNER



ACROSS

- 1 Rocket scientist's industry
- 7 Apparatus that uses power to perform a task
- 8 Time before an event
- 9 James Watt's invention, the _____ engine
- 10 Exactly fitting into a space
- 11 One who creates plans for bridges, towers, electrical circuits, etc.
- 13 Popular
- 15 The web, in general

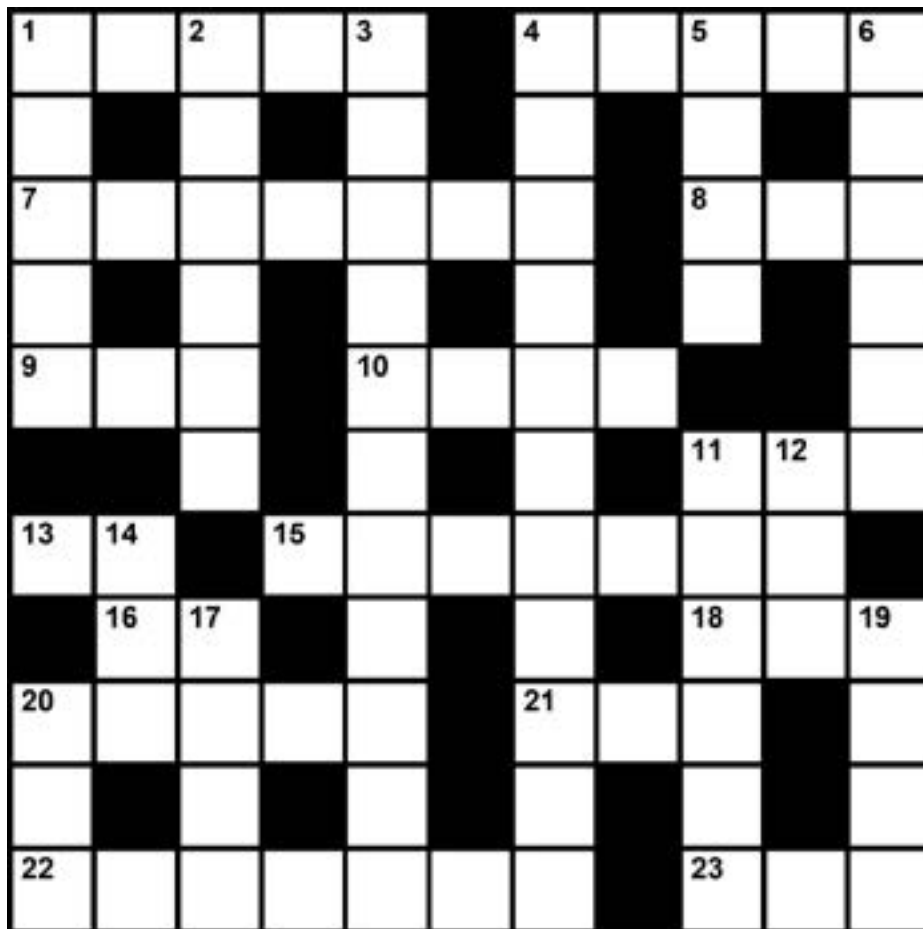
- 17 Consumed
- 18 He made a physics law relating to resistance
- 20 Source of solar power
- 21 With the highest temperature

DOWN

- 1 Extension on a machine
- 2 NASA's take-off vehicles
- 3 It measures earth movements
- 4 Substance that creates and effect or reaction

- 5 The E in E=mc²
- 6 Gravity scientist
- 9 Short railroad tracks
- 12 Build
- 14 Computer programmer's language
- 16 Plating material
- 19 East coast university that confers engineering degrees

TOUCHSCREEN



- 11 Old disk type used with computers
- 12 Letters that mean in dollars
- 14 1/60th of an hour, for short
- 17 Atmospheric pressure unit
- 19 Sketch out
- 20 What you might say when you solve a problem

ACROSS

- 1 Machine operated worker
- 4 Pilotless plane, now being tested in package delivery
- 7 Transmit as in electricity
- 8 It's used before a word to mean on or above
- 9 Polite way to address an executive
- 10 Sound of a release of steam
- 11 Enjoyment
- 13 5/8s of a mile, for short

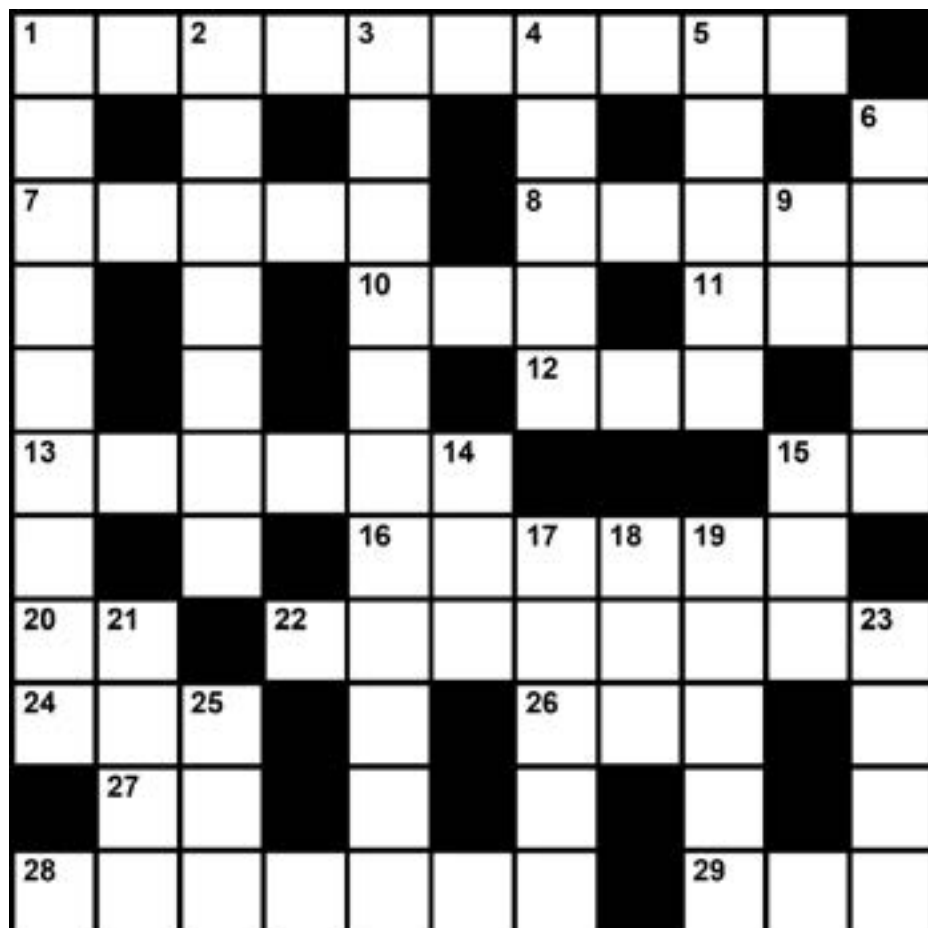
- 15 Learning facilities
- 16 Computer department
- 18 Unexpected
- 20 Positive electrode
- 21 Electrical current unit
- 22 Organize in an orderly way
- 23 Deviation from a set course

DOWN

- 1 Frameworks for computer network servers
- 2 Number system based on 2

- 3 Computer and phone display where you can interact using your fingers on its face—2 words
- 4 In computers, it's a form of memory to retain digital information, 2 words
- 5 _____ source code, useable by anyone
- 6 Ground-breaking inventor in electronics and other fields

CABLE



- 6 Long sections of metal or concrete used in construction
- 9 Old music record
- 14 Family member for short
- 15 End of many business names
- 17 Concave shapes which form very strong roofs
- 18 Scheduled
- 19 Clean, as a white board
- 21 Equipment for boating and rock climbing
- 23 On the cutting ____ (being at the forefront of new discoveries)
- 25 Wire diameter measurement, for short

ACROSS

- 1 Models made for testing and display
- 7 Concern for an architect when designing a building
- 8 ____ stayed bridge
- 10 Sound of excitement, at a new discovery perhaps
- 11 Government agency to protect the environment, for short
- 12 Name for inspirational

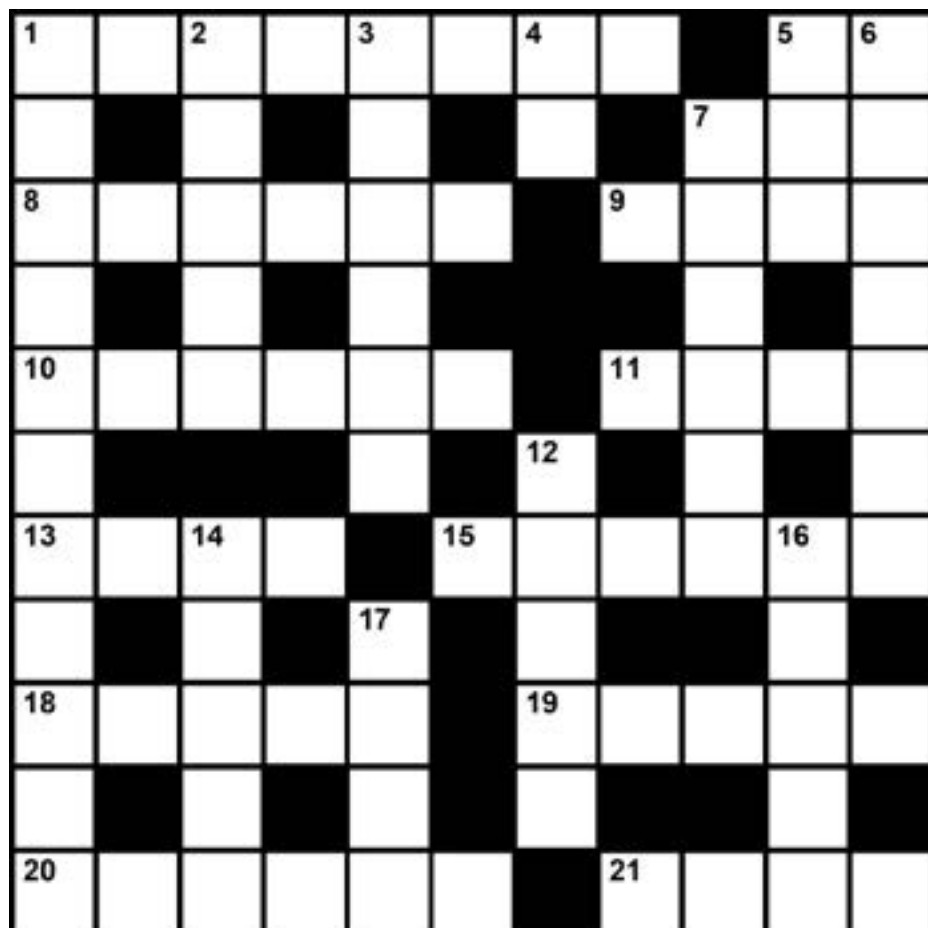
- talks about new discoveries and insights
- 13 Rotates rapidly
- 15 Exists
- 16 Concealed
- 20 Word showing an alternative
- 22 Useful asset that can be used on a project
- 24 French word for name
- 26 ____ culpa, it's an apology for an error
- 27 Circumference divided by diameter

- 28 Important spiral shapes in genetics
- 29 Watch closely

DOWN

- 1 Actions which mess up the environmental balance
- 2 Free from chemicals, natural- of materials or products
- 3 In a creative way—4 words
- 4 Luxury ship
- 5 Fix (in)

GRAPAHENE



- 6 Raises the temperature again
- 7 Span across a river or road
- 12 Natural resource used in hydro-electric facilities
- 14 Between
- 16 Parts of circuits that consume electrical power
- 17 Bar connecting wheels

ACROSS

- 1 Emerging material that could change the way electronic components are made, it's a millionth the thickness of paper!
- 5 Medical professional
- 7 Important pollinator
- 8 This engineering development center is the nation's largest complex of flight simulation test facilities

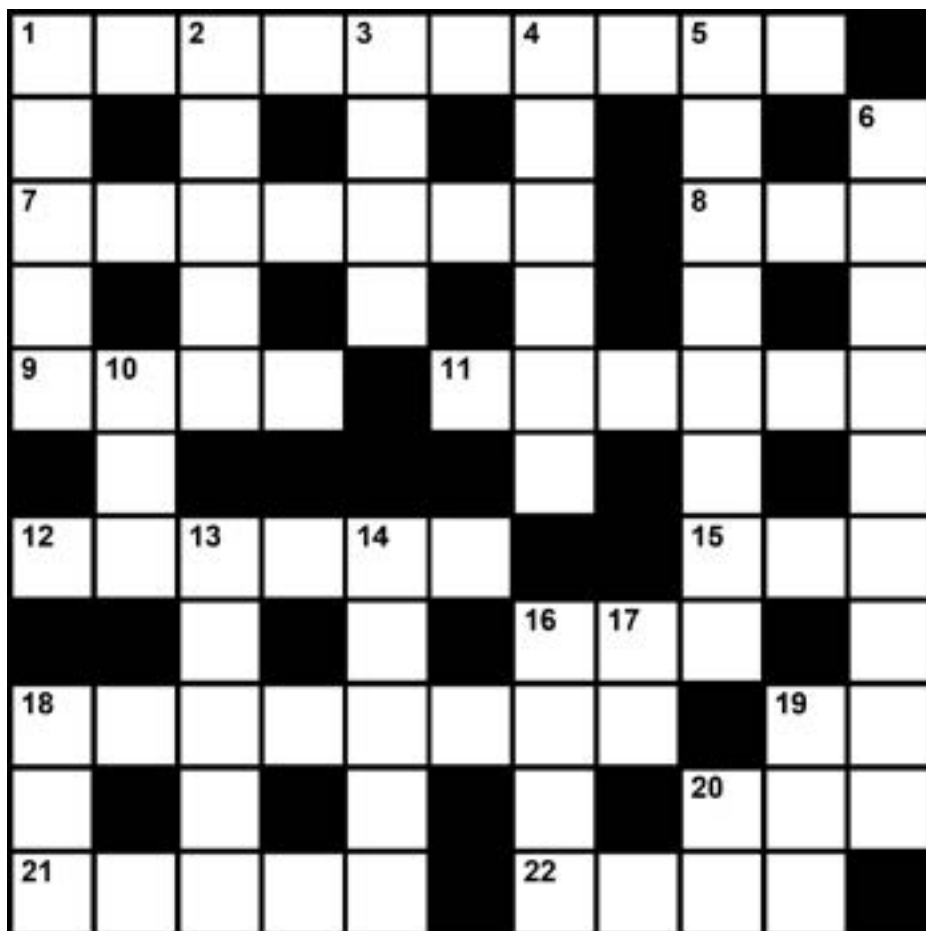
- 9 St. Louis' Gateway ____
- 10 Device that reduces the amplitude of electrical or aerodynamic oscillations
- 11 It's behind every invention
- 13 Leave out
- 15 Electrical devices consisting of flat insulated surfaces that contain switches and dials and meters for controlling other electrical devices

- 18 Type of rubber
- 19 Are the same as
- 20 Deserved
- 21 U.S space agency

DOWN

- 1 Large US dam on the Columbia River in Washington, a major source of hydroelectric power—2 words
- 2 Per ____, every year
- 3 Stopped
- 4 Disapproval
- 5 End of year month, for short

GRAVITY



- 14 They form the processing and memory units of a modern computer
- 16 Girder
- 17 The 50 states
- 18 Highest point
- 19 Aircraft engine container
- 20 Deciliter, for short

ACROSS

- 1 Force in a forward motion
- 7 The subject of Newton's law
- 8 And others, for short
- 9 Oxidize
- 11 Specimen for testing
- 12 Figure out logically
- 15 Wave power can be extracted from this water body
- 16 Electrical conductor that makes a common

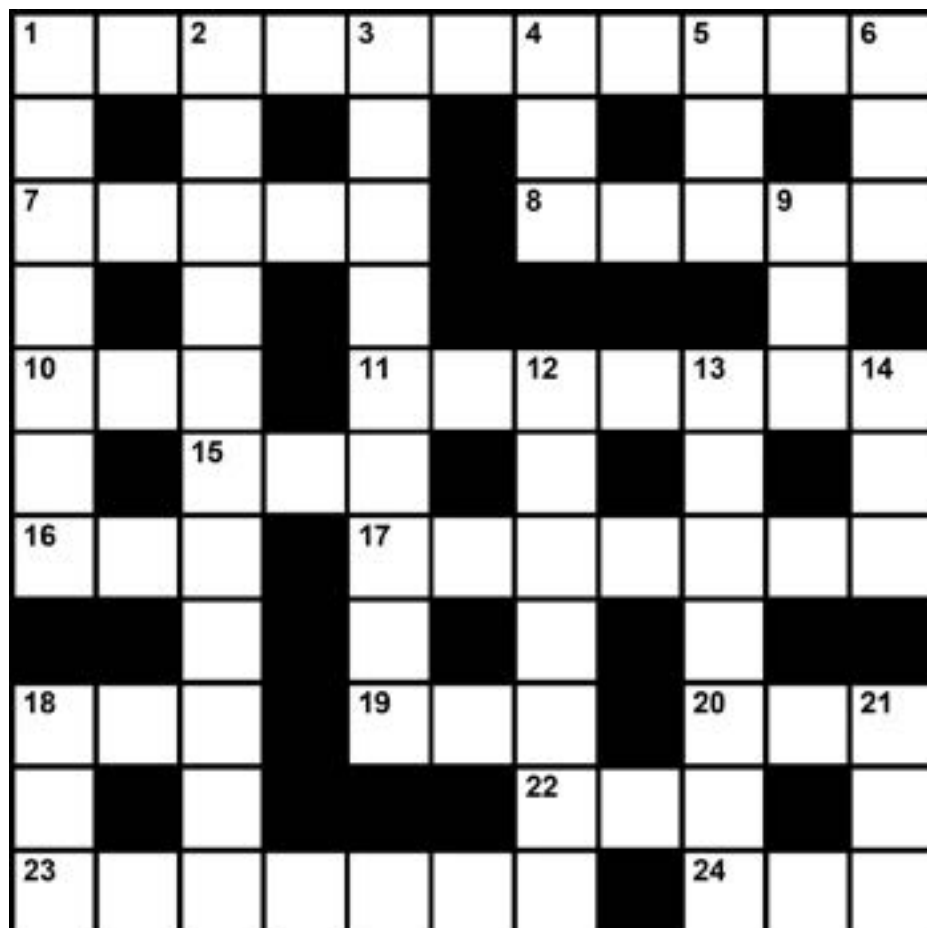
- connection between several circuits
- 18 Rotary engines that can be powered by the wind
- 19 Circle ratio
- 20 Medical pro
- 21 Battery ____: sets of identical batteries
- 22 Blend together

DOWN

- 1 Beeper rarely used now
- 2 Egg shapes

- 3 Candela and erg are examples of this
- 4 It was U.S.'s first space station in the 70s
- 5 Structure that forms a walkway above a road
- 6 Diagram of an electric circuit
- 10 Take advantage of
- 13 Physics Nobel prize winner who discovered new productive forms of atomic theory, Paul

OVERLOADING



ACROSS

- 1 Word meaning assisting rather than harming the environment
- 7 Large water body
- 8 Environmentally helpful
- 10 Major energy source
- 11 Class conducted online
- 15 ___ trial basis— 2 words
- 16 Vote of support
- 17 Increased the voltage, for example

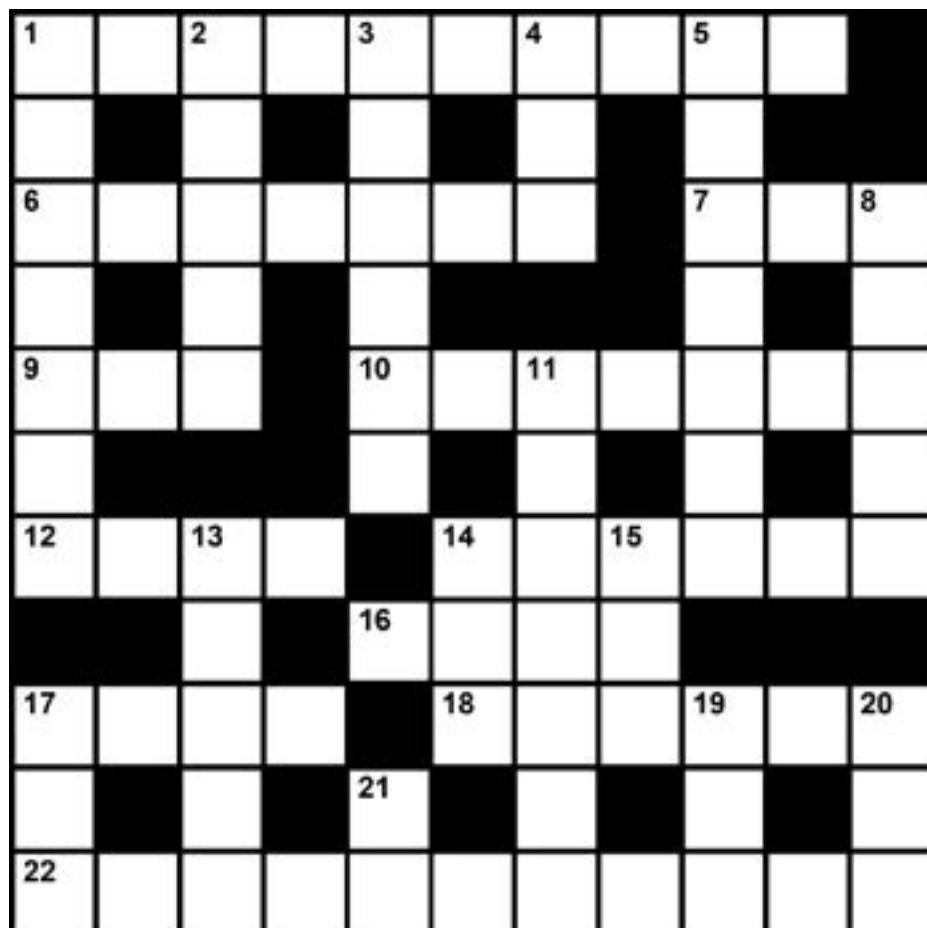
- 18 Pressure measurement, for short
- 19 College internet address ending
- 20 Engine's speed, for short
- 22 Environmental controllers, abbr.
- 23 Sound
- 24 ___ voltage

DOWN

- 1 The environment as it relates to interlinking organisms
- 2 Adding too many devices and

- appliances to an electrical circuit
- 3 Energy such as solar or wind
- 4 Hospital chart of a heart's performance, abbr.
- 5 Stop working
- 6 Japanese money
- 9 Time period
- 12 Fuel derived from organic matter
- 13 Not man-made
- 14 Unit of absorbed ionizing radiation
- 18 Friend
- 21 Cut the grass

CONDUIT



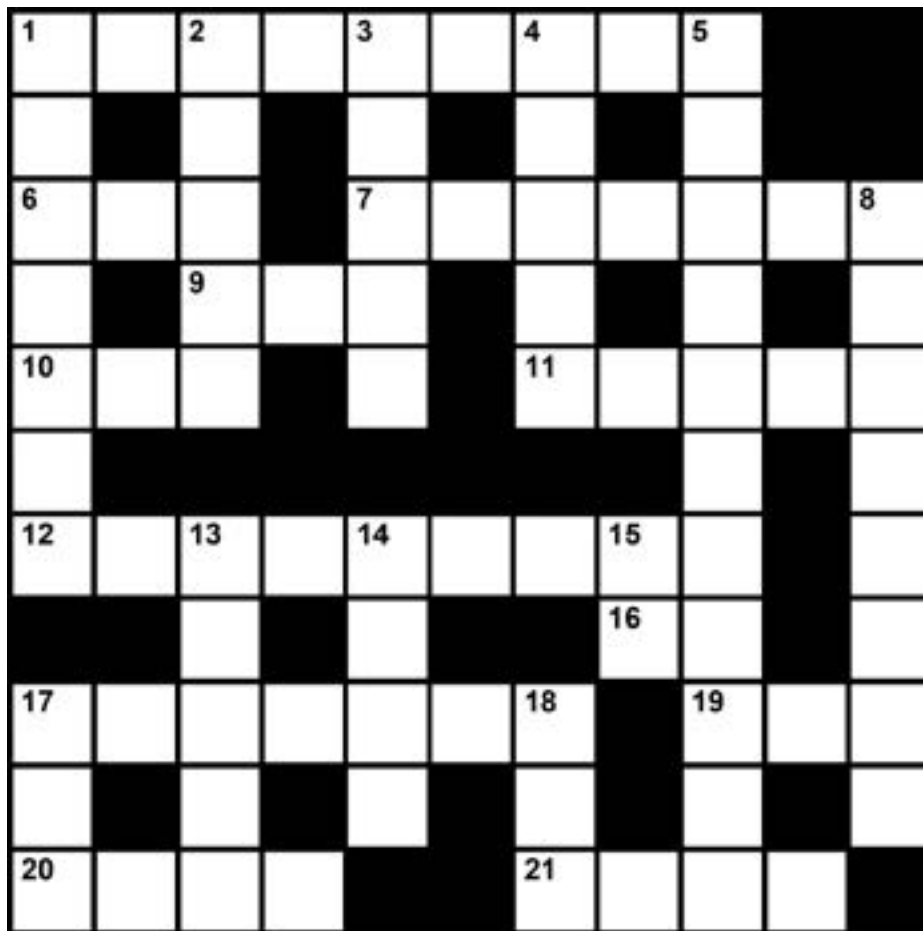
ACROSS

- 1 Remove salt from
- 6 Passage for an electrical wire
- 7 It'll fire an arrow
- 9 Of course!
- 10 Electrical flow
- 12 Hollow cylinder
- 14 Sharp transient waves, in electronics
- 16 ___-tag, search engine term
- 17 Layer
- 18 Light or sound detector
- 22 Features in a divided highway—2 words

DOWN

- 1 Break a code
- 2 Harmonizes
- 3 Get a rocket off the ground
- 4 It holds a bolt in place
- 5 Android and iPad, for examples
- 8 Power measurements, in bulbs
- 11 They forward data packets between networks
- 13 Circuit ___ (it's a physically laid out diagram for setting up electronic connections)
- 14 Foot, in zoology
- 15 Networked computers, for short
- 17 It converts circular to linear motion
- 19 35mm camera choice
- 20 Stretch of turbulent water
- 21 Sound system, for short

VECTORS



ACROSS

- 1 Innovative system for freight and passenger transport within a sealed tube
6 Heat measurement
7 In aviation, these are flight paths plotting a direction for the plane
9 Link
10 Number which is the basis for the binary system
11 Four-sided figure
12 Hubble and James Webb are two famous examples of this

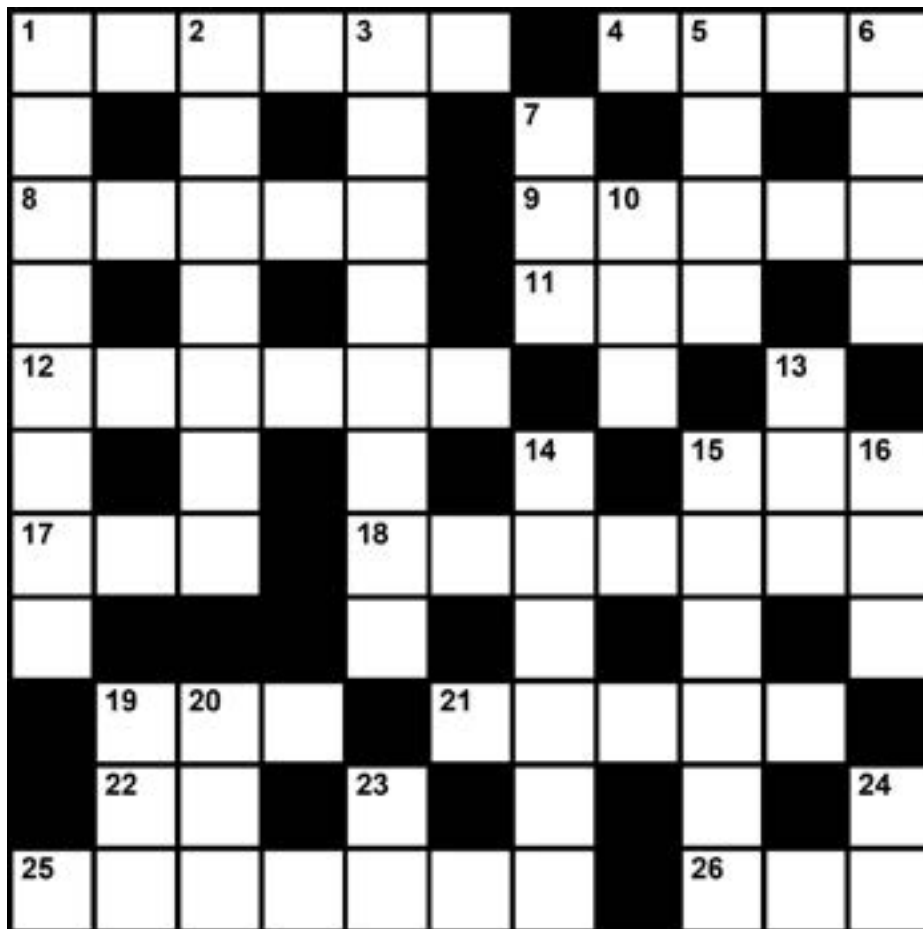
- 16 Position indication
17 The higher levels of this in the oceans are a point of environmental concern
19 Center of a storm
20 It's mined for fuel
21 Undertaking

DOWN

- 1 Native environment of plants and animals
2 Planet which used to be known as one of the earth's planets

- 3 Space vehicle that can travel across a planet's surface
4 Happen
5 They measure the intensity of light
8 Falls lower
13 Well-known camera brand
14 Rotate
15 State well-known for its steel production
17 ___ welder
18 To this point in time

TORQUE



ACROSS

- 1 It's measured in foot-pounds
- 4 Go across
- 8 Load-bearing girder
- 9 Important part of the country's infrastructure that affects travel and transport of goods
- 11 Possess
- 12 Observing
- 15 Launching _____
- 17 Put in place
- 18 Force metal through a die

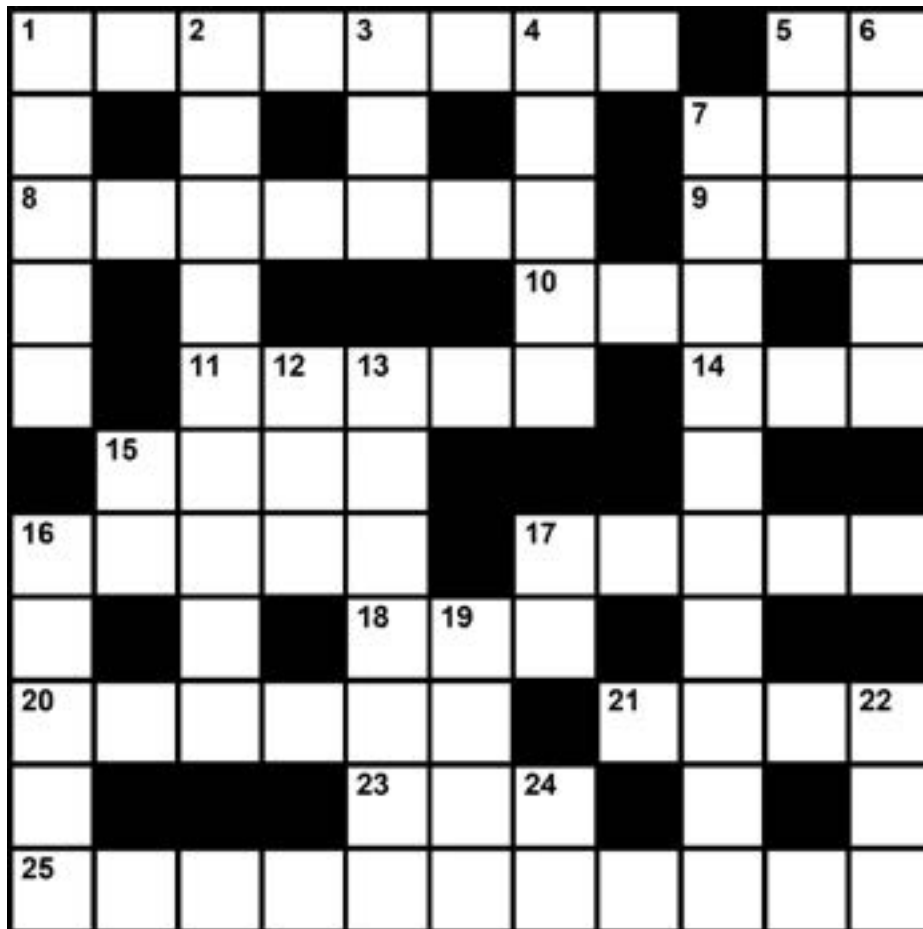
- when making metal parts
- 19 Abbreviation for standard
- 21 Luxury electric car
- 22 Knockout, for short
- 25 Lifting devices
- 26 Hard wood tree used for making bows

DOWN

- 1 Three-sided shape
- 2 Coming back into the earth's atmosphere, as a rocket

- 3 Like a satellite with no crew onboard
- 5 Schematic
- 6 Space shuttle agcy.
- 7 Expert
- 10 Be in debt
- 13 Measure of radiation
- 14 Force that creates strain on a physical structure
- 15 Hoisting machine
- 16 Dawn's moisture
- 19 Travel on snow
- 20 Large weight
- 23 It measures acidity
- 24 Ouch!

ALGEBRA



- 12 Barely get, with "out"
- 13 Silicon based material used by NASA as an insulator
- 15 Carry out
- 16 Mechanism by which force is transmitted in a machine
- 17 Exist
- 19 Blazing star
- 22 ___ware (computer virus spreader)
- 24 Extra-terrestrial, for short

ACROSS

- 1 One of the recommended math classes for an engineering career
- 5 Light strong metal, atomic number 22
- 7 Container
- 8 " $x + y = z$ " math branch
- 9 Length of time from when a structure was built
- 10 Disfigure
- 11 Approaches

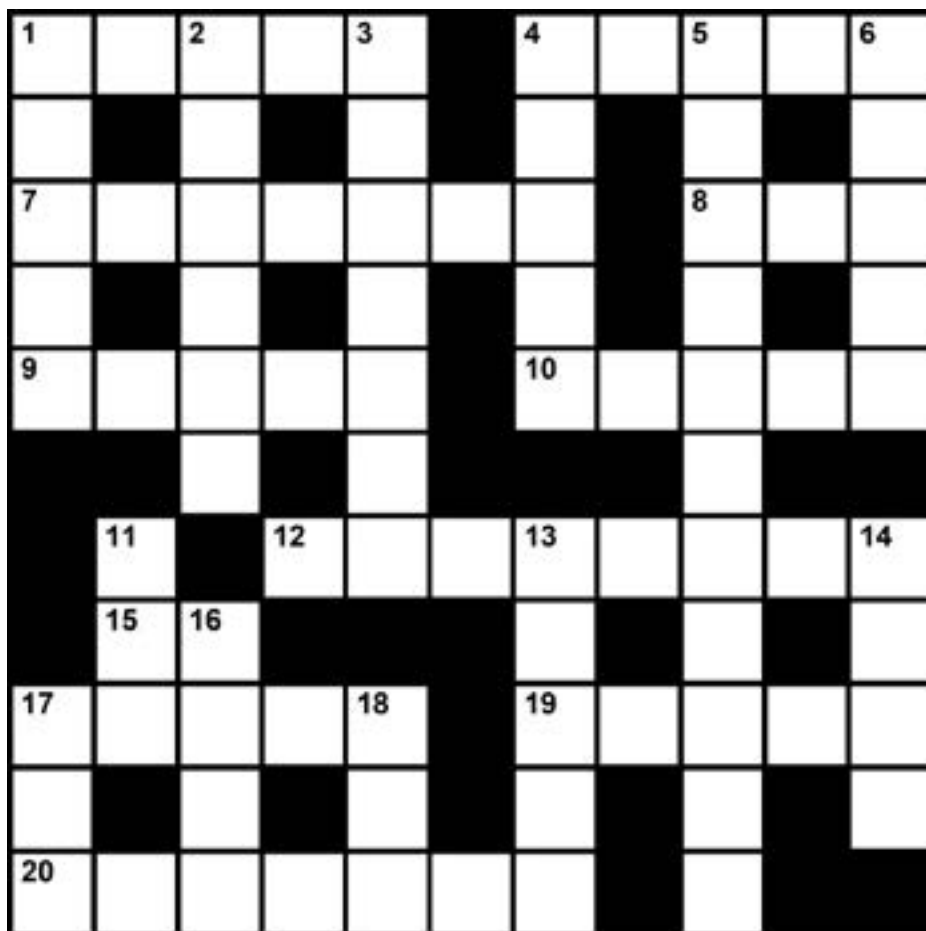
- 14 Rock drill attachment
- 15 Kind of dam to keep water out of an area
- 16 Large construction site machine for moving earth
- 17 Drilled a hole
- 18 Smallest whole number
- 20 Color of the rainbow
- 21 Smallest component of an element having the chemical

- properties of an element
- 23 Night before
- 25 With all sides of equal length

DOWN

- 1 Slope
- 2 Arranged logically and efficiently
- 3 Go out, as a tide
- 4 Enlarges, as a hole in a pipe
- 5 Label
- 6 Like krypton or argon
- 7 It mixes air with a spray of fuel, in an engine

ELASTIC



ACROSS

- 1 Remain on the top of water
- 4 Electricity
- 7 Flexible, as in a bungee cord
- 8 Managed
- 9 Diving gear
- 10 Weighing equipment
- 12 Response to a stimulus
- 15 Very large clothing size
- 17 Organ in the body that has an electrical system inside it

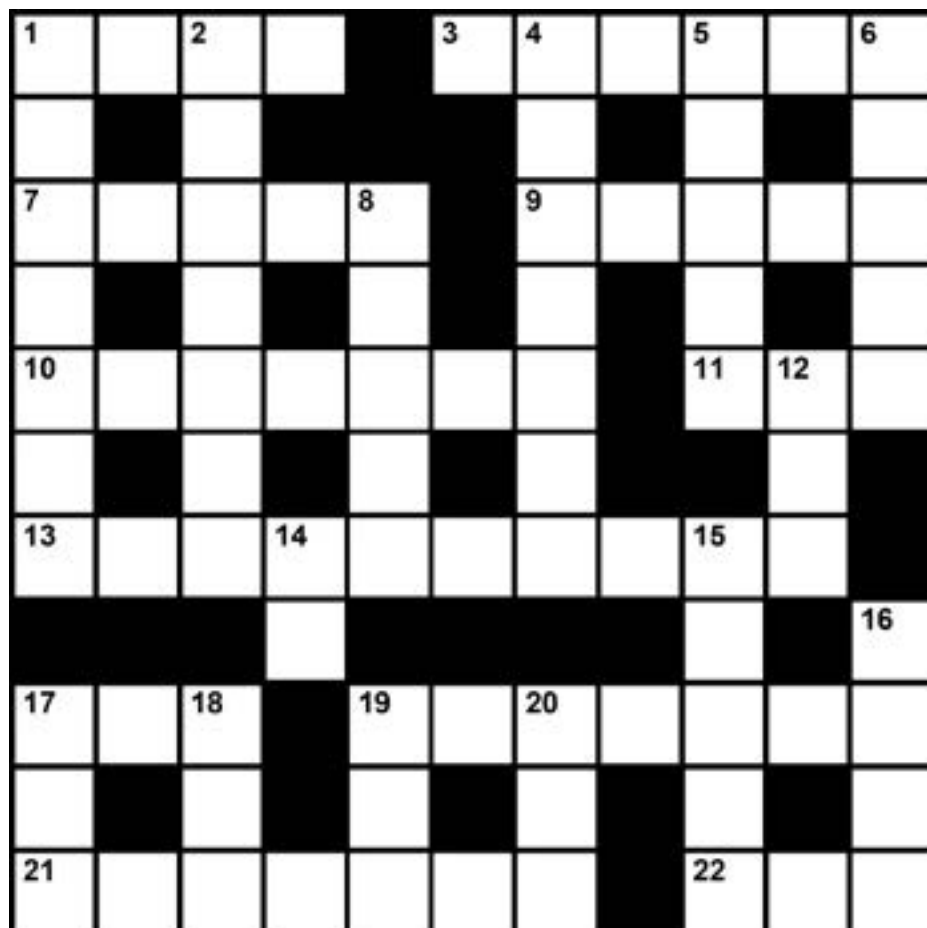
- 19 Dots on a radar screen
- 20 Material used in some car and plane parts to reduce weight

DOWN

- 1 Gas, coal, ethanol for example
- 2 Opposite of transparent
- 3 Test the strength of, chemically
- 4 Selects
- 5 Usefulness
- 6 Scope
- 11 Tool for cutting down trees

- 13 Having three dimensions
- 14 Front area of a plane
- 16 Liquid rock that is ejected by volcanos
- 17 Joint in the body that is sometimes replaced
- 18 Add up

SUSPENSION



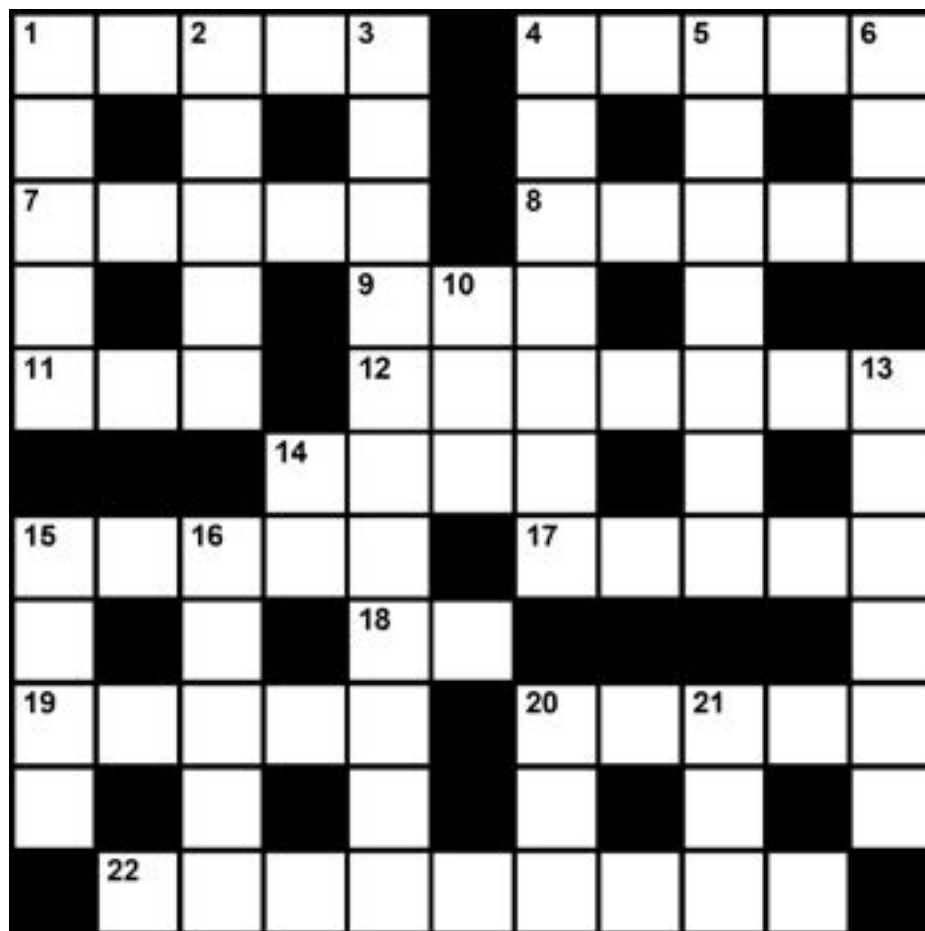
ACROSS

- 1 Cylinder
- 3 Stress
- 7 Distance measurement
- 9 Prize offered in physics, chemistry and other disciplines
- 10 Copy
- 11 Flow
- 13 Type of bridge
- 17 Engine speed, for short
- 19 Container used in many repairs
- 21 Electromotive force
- 22 Link up

DOWN

- 1 Subject recommended in preparing for an engineering career
- 2 Government approvals issued on engineering projects
- 4 Underground passages
- 5 One of the colors in a traffic light
- 6 Rope material
- 8 Fuel-yielding rock
- 12 Large coffee container
- 14 Commonly used math ratio
- 15 Planetary path
- 16 Bar between a car's wheels
- 17 Accelerate, ____ up
- 18 Millimeter, for short
- 19 Drink served hot or cold
- 20 It contains valuable minerals

HYBRIDS



- 16 Motions of the sea
- 20 The internet generally
- 21 French word for summer
- 30 Evening time

ACROSS

- 1 Software program that can cause a lot of damage to files and systems
- 4 Mechanical devices that move fluids
- 7 Get access to a computer— 2 words
- 8 Take the cover off a well, for example
- 9 A type of shaft or wheel
- 11 Completion
- 12 Autos that run on gas and electricity

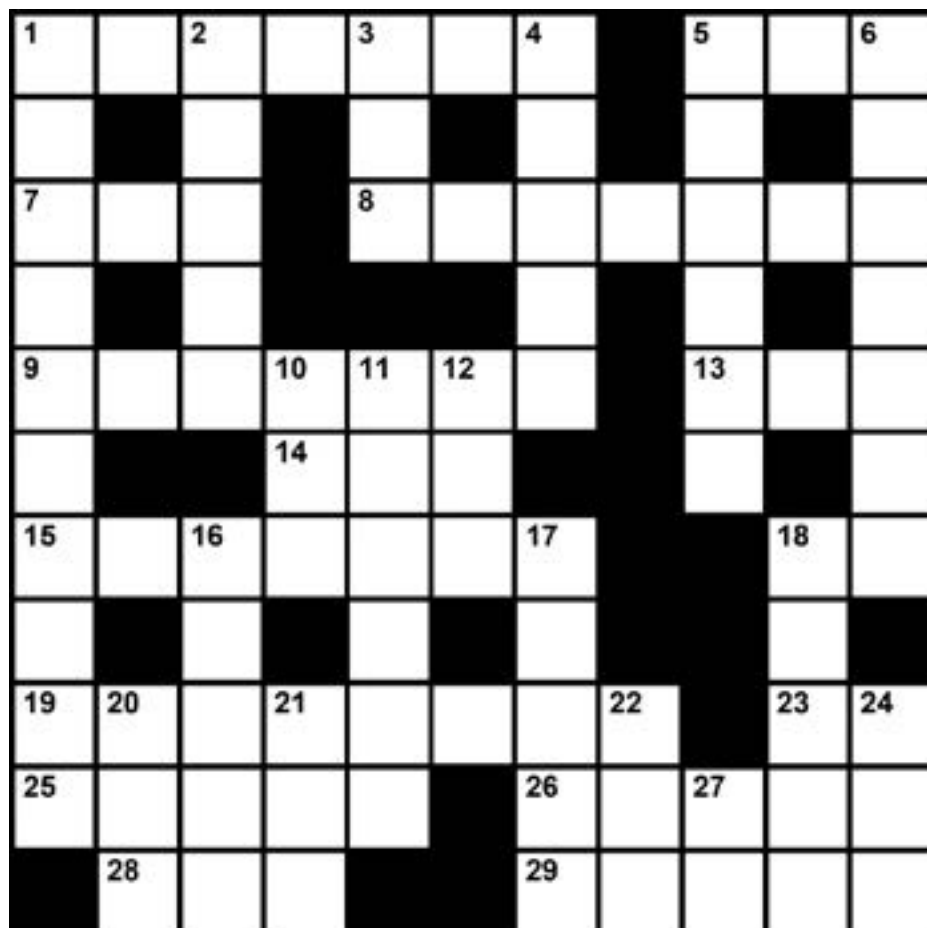
- 14 Hierarchical data structure in computer programming
- 15 Mathematical comparison
- 17 Imagine better futures
- 18 Sodium symbol
- 19 Half diameters
- 20 Important discovery in the early history of mankind
- 22 Put together

DOWN

- 1 It regulates a flow

- 2 Unbending
- 3 Make happen at the same time
- 4 Measured the depth of something
- 5 Mechanical or electrical device that assists in human tasks
- 6 Liquid in a tree
- 10 "Yes" on a ship
- 13 Easy to perform
- 14 Symbol for a strong gray metallic element
- 15 Not commonly occurring

CALCULUS



ACROSS

- 1 Where a current can flow
- 5 Road surface material
- 7 Automated computer program
- 8 Sideways
- 9 Bring back to the original condition
- 13 Evaluating quality
- 14 Not operational
- 15 Made a paper copy
- 18 Top grades
- 19 Branch of math
- 23 Tech department
- 25 Apply, as force
- 26 East coast state

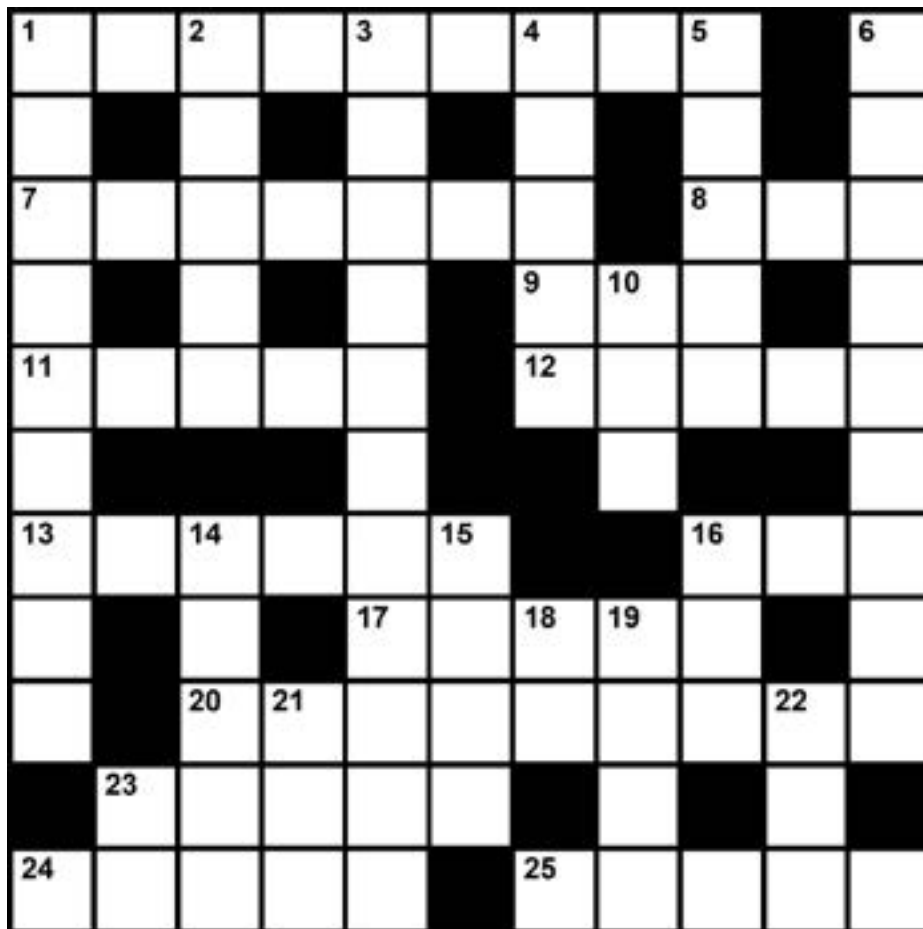
- 28 Not an exact figure, for short
- 29 Cold metal shaper

DOWN

- 1 The whole global computer network
- 2 Puts a grade on
- 3 Web page address
- 4 Car owner's document
- 5 Kind of printing where you can create objects—2 words
- 6 Revolving cylinders
- 10 Vehicle weight measure

- 11 Product
- 12 Route, for short
- 16 Runs in neutral, as an engine
- 17 Large containers for liquid
- 18 Breezing through, as an exam
- 20 Lumberjack's tool
- 21 Cathode-ray tube, for short
- 22 Observed
- 24 Shirt type
- 27 Des Moines' state

DATABASES



ACROSS

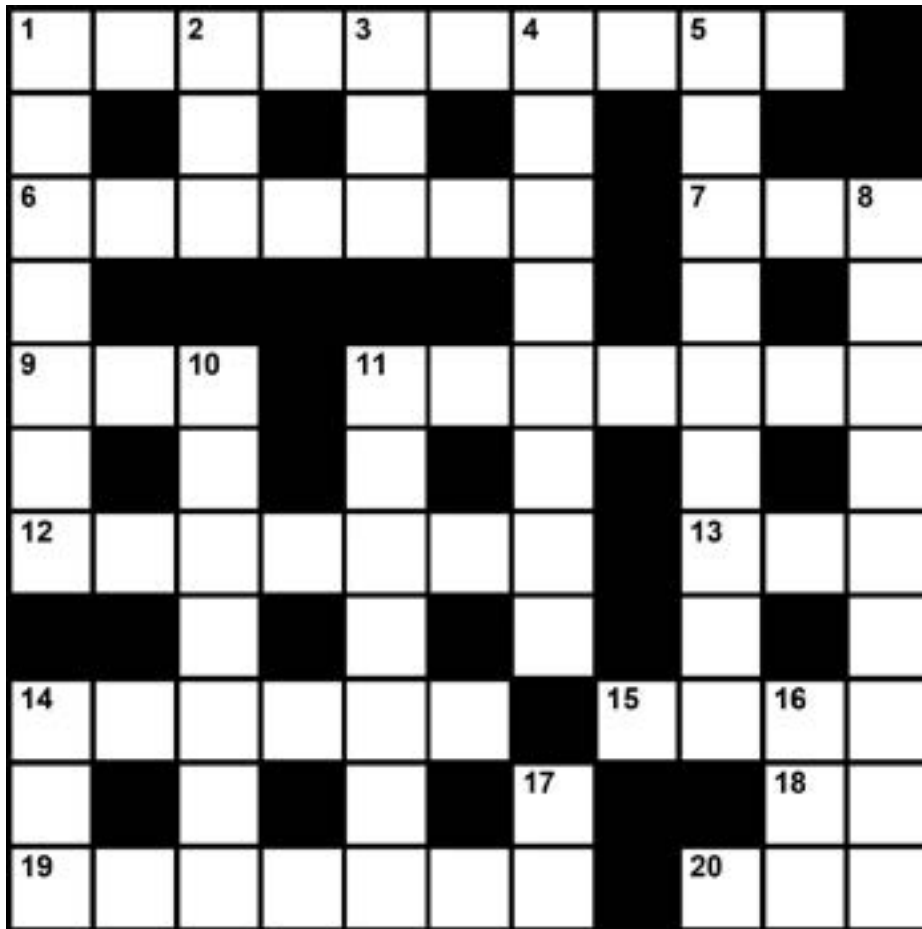
- 1 They orbit nuclei
- 7 Meteorological map lines
- 8 Debtor's note letters
- 9 Make a mistake
- 11 Comes from
- 12 Gear feature
- 13 Beginning
- 16 ___ hunch—
2 words
- 17 Enlighten
- 20 Stores of digital information
- 23 At no point
- 24 Blender in the kitchen
- 25 Phase

DOWN

- 1 They affect air quality and are being controlled in cars and trucks
- 2 Eat into
- 3 It can broadcast radio and TV signals
- 4 Start
- 5 It's at the top of many cathedrals
- 6 Screens that are sensitive to human fingers on phones and laptops
- 10 Spectrum color
- 14 Catalogue

- 15 Close
- 16 Expressions of surprise
- 18 Blood type
- 19 Where you pay for items online
- 21 Street abbreviation
- 22 Electrocardiograph, for short
- 23 Nickel symbol

NEURONE



ACROSS

- 1 Bitcoin uses this type of distributed and secure database
6 Sent an electronic message
7 Navigational application which gives the fastest routes
9 Have a stake in
11 Quantities
12 Cell that conducts nerve impulses
13 Old verse written in praise of something or someone

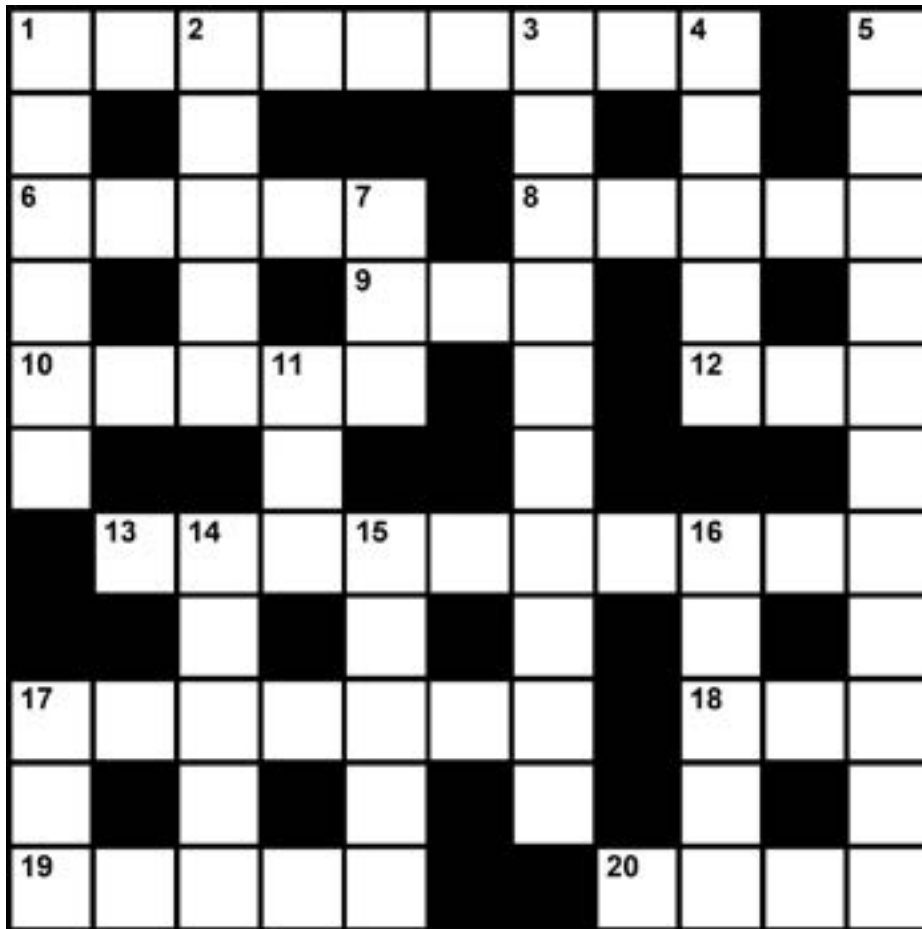
- 14 Heart exercise
15 Took advantage of
18 Tellurium symbol
19 Straight line or curve that touches a curve or curve's surface at a point but does not intersect it
20 Brief craze

DOWN

- 1 Virtual currency
2 Single thing
3 Tool holder
4 Lightest element
5 Very smart
8 Kept buoyant in a liquid

- 10 Elementary particle with 0 charge and mass
11 Coat a metal by electrolytic action
14 Make into two pieces
16 When the pilot is due in, for short
17 Distance measurement (abbr.)

LIDAR



ACROSS

- 1 Integrated circuit piece
6 Human's processing center
8 Instrument similar to radar used in self-driving car technology
9 Yes in French
10 Connections between points
12 Energy saving light bulb
13 Soaking up
17 Invasive computer programs
18 Vitality

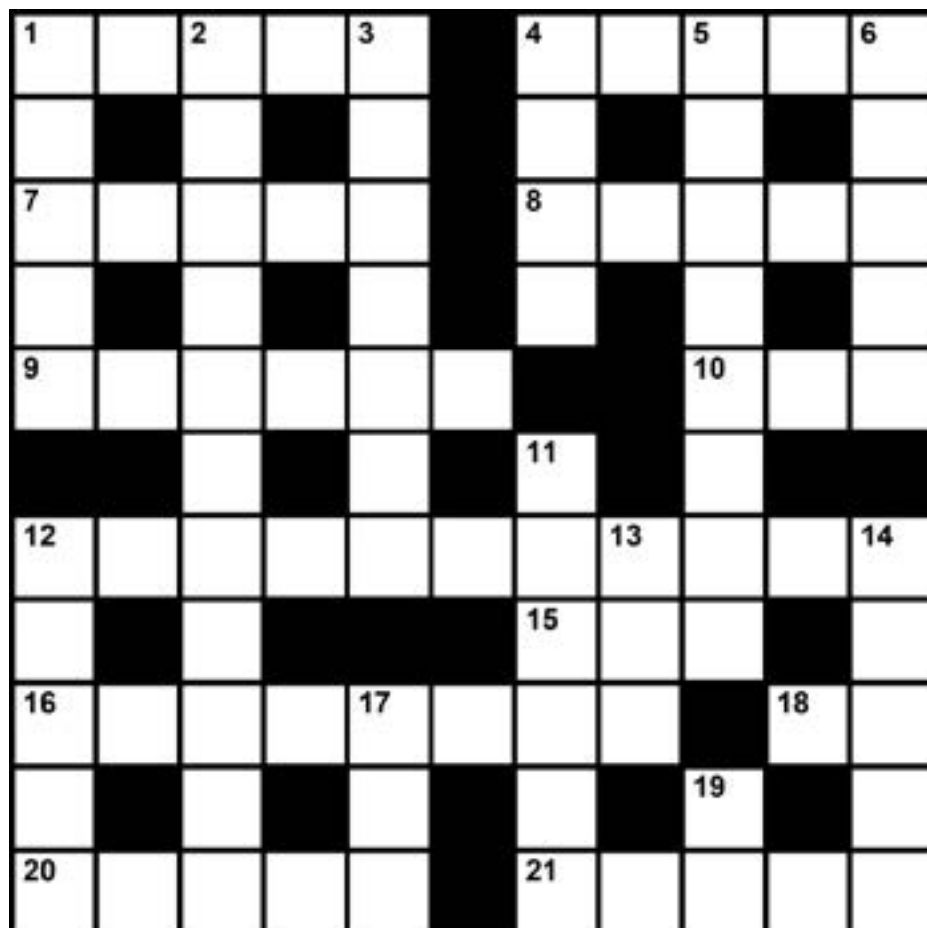
- 19 Levels
20 Former Google CEO, ____ Schmidt

DOWN

- 1 Moving
2 Series of links
3 Vertical flyer
4 It moves a bicycle
5 Designed to arrange the least resistance to airflow
7 Refusals
11 Hospital rooms for emergencies
14 Author of a law about the relationship

- between the pressure and volume of gases
15 Egg shapes
16 Alloy of iron and nickel
17 Complete collection

FRICION



ACROSS

- 1 Spectrum-forming crystal
- 4 Carries a load
- 7 Connected electrically
- 8 California and Nevada lake
- 9 Equestrian's seat
- 10 Lawn piece
- 12 Semiconductor devices
- 15 About half the population
- 16 Resistance that occurs when body rubs against another

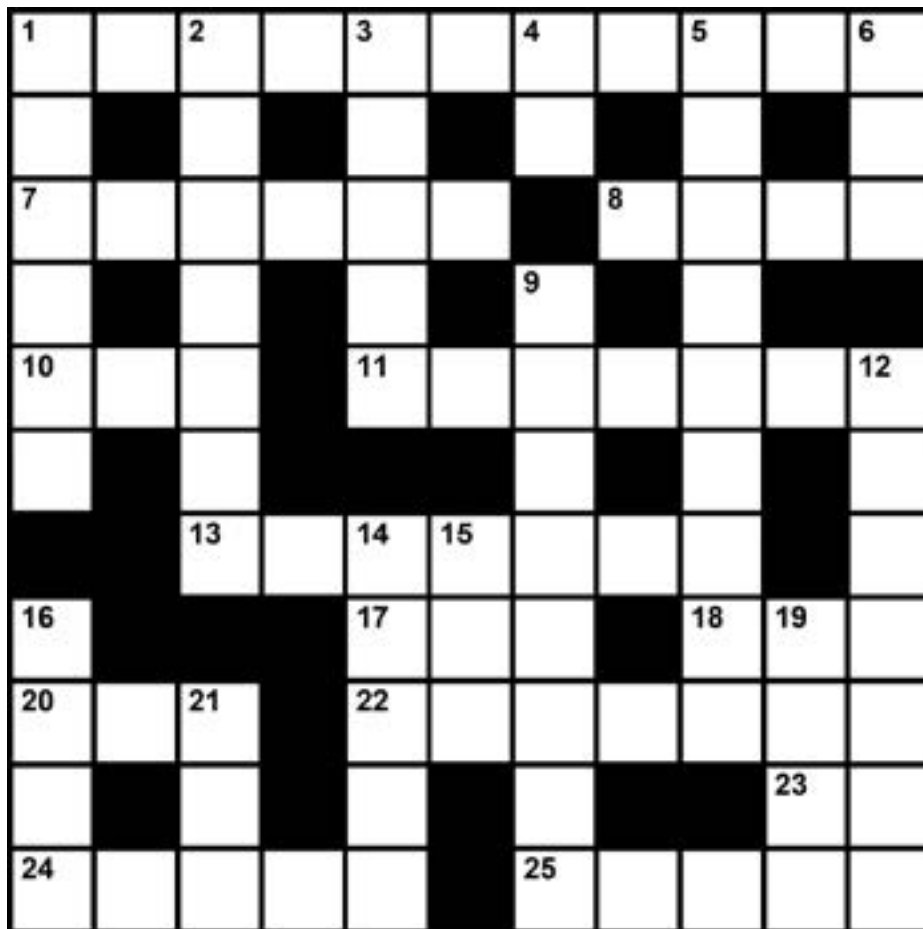
- 18 Organization with global concerns
- 20 Transition to the next subject
- 21 Famous Swiss mathematician

DOWN

- 1 Ratchet bars
- 2 Sending out rays of light
- 3 Spacecraft sections
- 4 Computing 0s and 1s
- 5 Bonding
- 6 It's measured by mph

- 11 Be absorbed gradually
- 12 Rows
- 13 Perfect score, often
- 14 Echolocation system
- 17 Foot digit
- 19 Tampa's state

SPINDLE



ACROSS

- 1 Swinging from side to side
- 7 One of the colors in the spectrum
- 8 Went round
- 10 Large tree
- 11 Lathe part
- 13 Famous "valley" which has been important for tech inventions and start-ups
- 17 Remnants of a fire
- 18 Top limit
- 20 Having a high temperature
- 22 Computer programs that

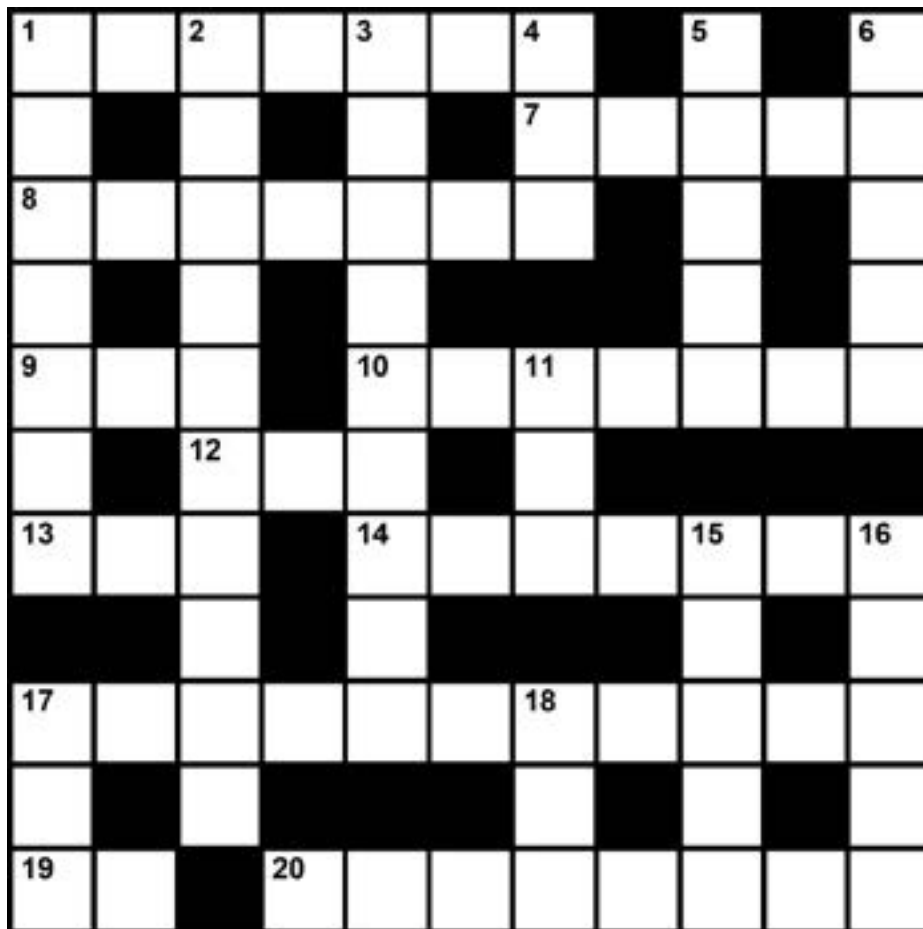
- are part of search technology
- 23 Wide shoe fitting letters
- 24 Sound of a motor
- 25 Small unit of people

DOWN

- 1 Important component of air
- 2 Pillars
- 3 Winds
- 4 Symbol for silver
- 5 Total opposition to the flow of an alternating current

- 6 Accelerate, an engine in a way
- 9 Semiconductor crystals that use DNA to recognize genes
- 12 Passed by, as time
- 14 Beam now commonly used in surgery
- 15 Company that helps you get online, abbr.
- 16 Melt
- 19 Square-footage measurement
- 21 Three-way

AMMETER



ACROSS

- 1 Smallest discrete quantity of some physical property that a system can possess
- 7 Negatively charged particle
- 8 Current calculator
- 9 Type of braking system
- 10 Increase the size of volume
- 12 Polyethylene terephthalate, for short (a plastic used in water bottles)
- 13 Quiet!

- 14 Consist of

- 17 Theory and practice of navigation through air and space
- 19 Weight measure, for short
- 20 Brings two separate things together

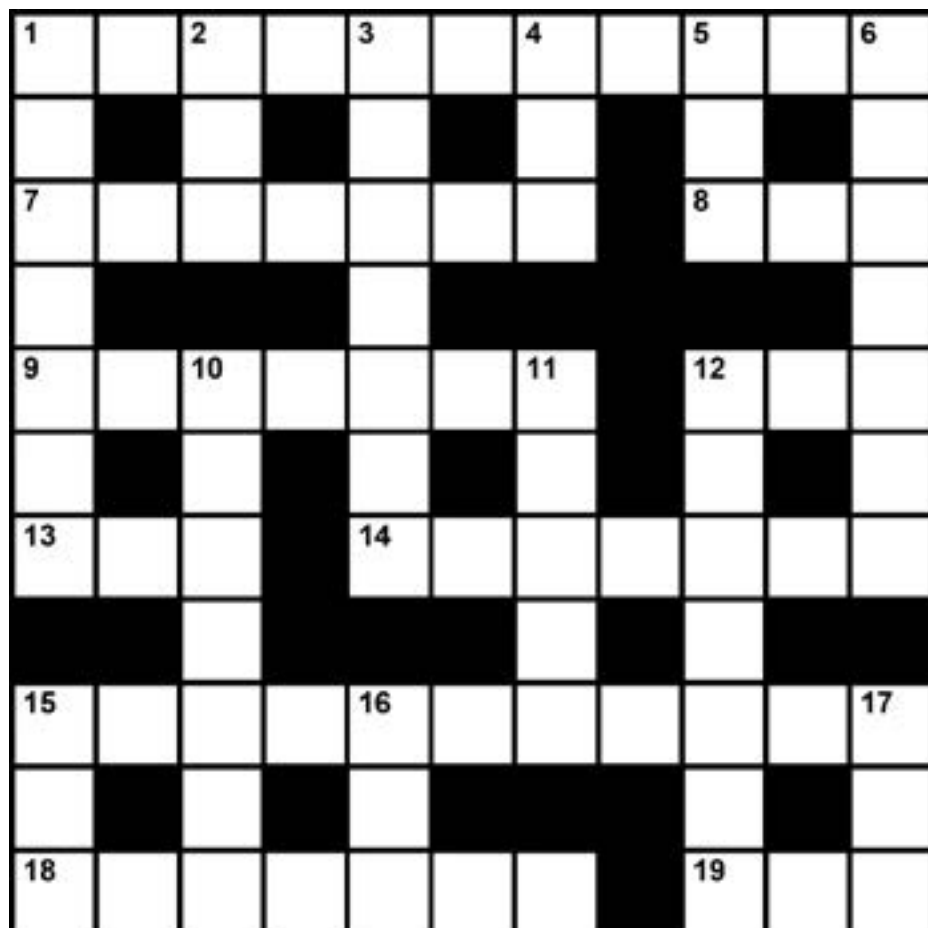
DOWN

- 1 Highly luminous cosmic objects
- 2 Gaseous area surrounding Earth
- 3 Type of volumetric analysis

- 4 Scratch

- 5 Dense rain clouds
- 6 Like many mountain tops in winter
- 11 Pipe material
- 15 Joining
- 16 Makes comfortable
- 17 Everyone
- 18 Port used by flash drives

CYBORGS



ACROSS

- 1 Automated, like the new cars being piloted—
2 words
- 7 Man-machine hybrids
- 8 In the center of
- 9 Very dense and stable metal
- 12 Scheduled to arrive
- 13 ___dymium, atomic number 60
- 14 Miniature keyboards
- 15 Type of power system which is renewable and

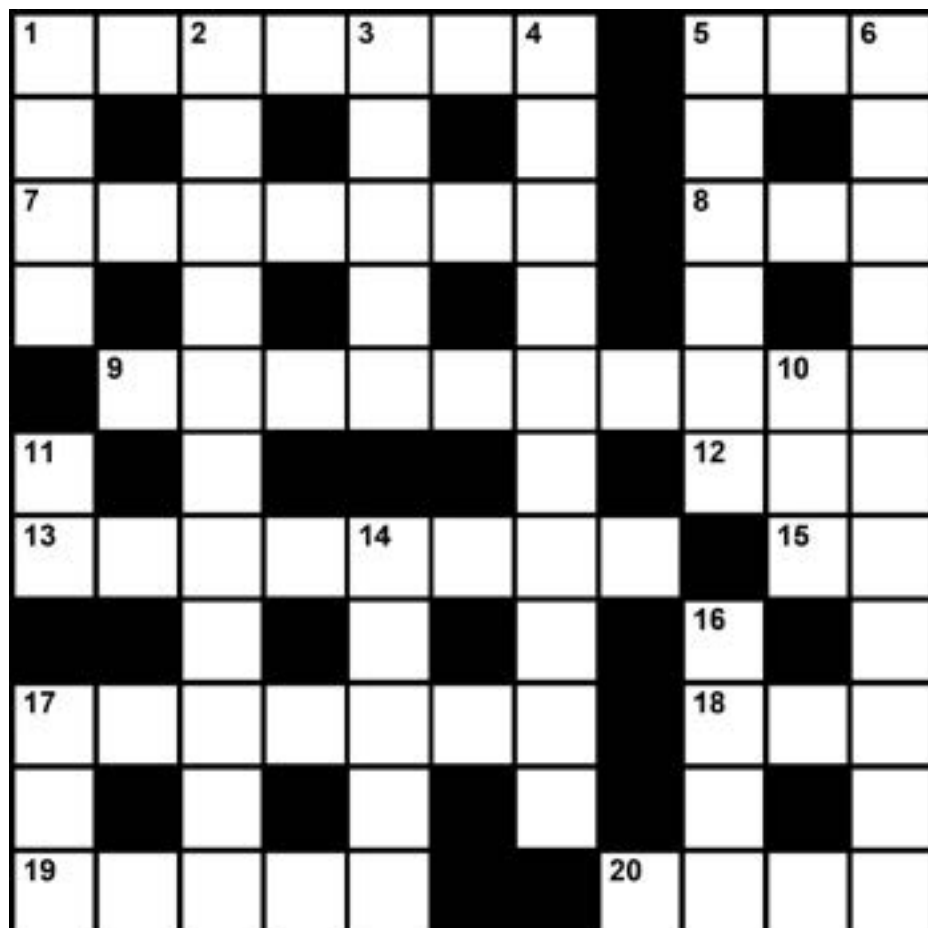
- sustainable—
2 words
- 18 Stonework
- 19 Came together

DOWN

- 1 Vacuum strength
- 2 Place for experiments and tests
- 3 Framework set up over an oil field
- 4 Papers which show who you are
- 5 Technology giant that created the Watson computer
- 6 Useful devices

- 10 Compounds having different arrangements of atoms but the same molecular weight
- 11 Relating to an old Peruvian civilization
- 12 Chart, plan or scheme
- 15 Video ___
- 16 It means not, before a word
- 17 For the present

NUCLEAR



ACROSS

- 1 Kind of power plant
- 5 Apple operating system
- 7 1,2,3, or 4
- 8 Genetic "blueprint"
- 9 Planners and designers
- 12 Plaything
- 13 Kind of electrical charge
- 15 Operating system, abbr.
- 17 Major undertaking
- 18 Flying geese formation shape

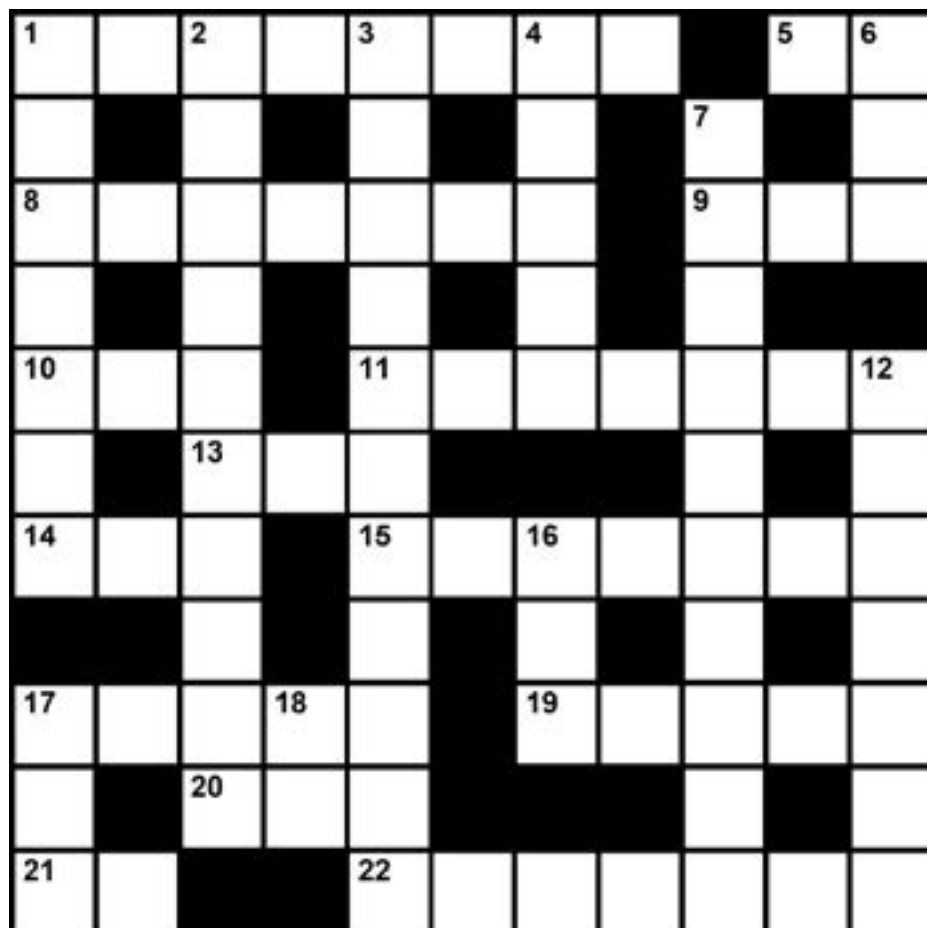
- 19 Inventor who created the transformer
- 20 Responsibility

DOWN

- 1 Billionth, used with the words second or chip
- 2 Mechanical devices that use the power of compressed air
- 3 Our planet
- 4 Subject of Einstein's theory
- 5 Produce electric current by

- electrostatic or magnetic processes
- 6 Planetary bodies that orbit one another—2 words
- 10 Excessively
- 11 Increase
- 14 Angle symbol, in geometry
- 16 Kitchen appliance
- 17 Mining area

RECYCLE



ACROSS

- 1 IBM's chess computer—
2 words
- 5 Household computer,
for short
- 8 Core
- 9 Deposit
- 10 Top school
- 11 Finds
- 13 Digital camera
output
- 14 To this point
- 15 Conserve
resources by
reusing them
- 17 Squall
- 19 Follow behind

- 20 Pen part
- 21 Masters degree,
abbr.
- 22 More intelligent

DOWN

- 1 Amount per
unit size
- 2 Actin of encoding
data
- 3 Secondary
navigation
scheme which
shows a user's
location or trail
on the web
- 4 Sports shocker
- 6 Type of medical
scan

- 7 Mars Rover,
for example
- 12 Related to the
stars
- 16 Slice off
- 17 Simple arithmetic
problem
- 18 Newport's state
abbr.

ANSWER KEY

Discovere, Page 3



Sockets, Page 4



Designer, Page 5



Touchscreen, Page 6



Cable, Page 7



Graphene, Page 8



Gravity, Page 9



Overloading, Page 10



Conduit, Page 11



Vectors, Page 12



Torque, Page 13



Algebra, Page 14



Elastic, Page 15



Suspension, Page 16



Hybrids, Page 17



Calculus, Page 18



Databases, Page 19



Neurone, Page 20



Lidar, Page 21



Friction, Page 22



Spindle, Page 23



Ammeter, Page 24



Cyborgs, Page 25



Nuclear, Page 26



Recycle, Page 27





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