

for students



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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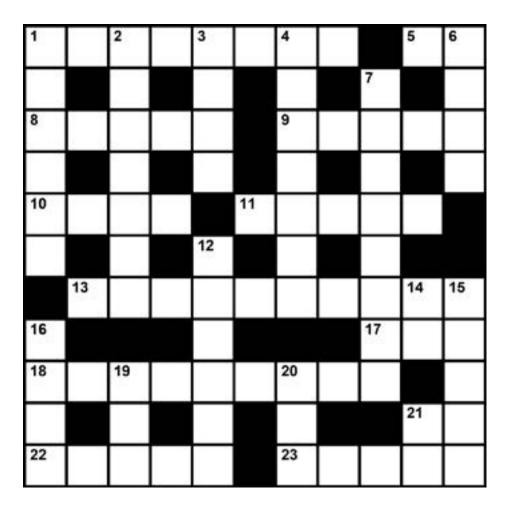
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DISCOVERE



ACROSS

- 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

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

- Fill with confidence
- Future ____: a

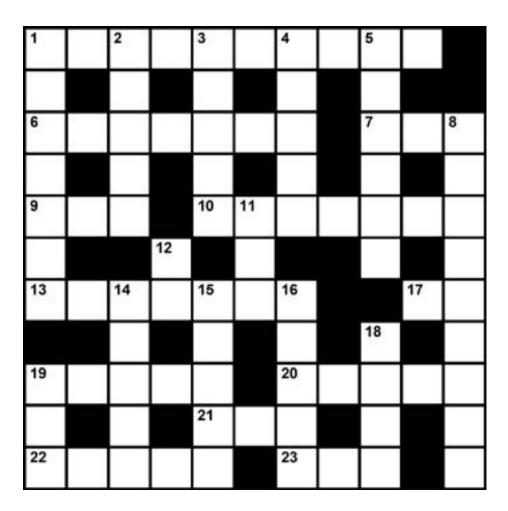
 program where

 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

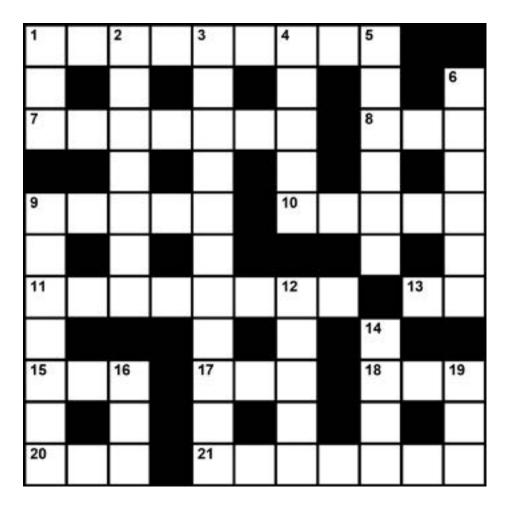
- 1 Creating a new device or product
- 6 Electrical devices which receive plugs
- 7 Computer design abbreviation
- 9 Put in
- 10 Procedures
- 13 ____-ion batteries
- 17 Measure of weight
- 19 Electrical safety devices
- 20 Defense Agency's development branch that researches for

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

- 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

- 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

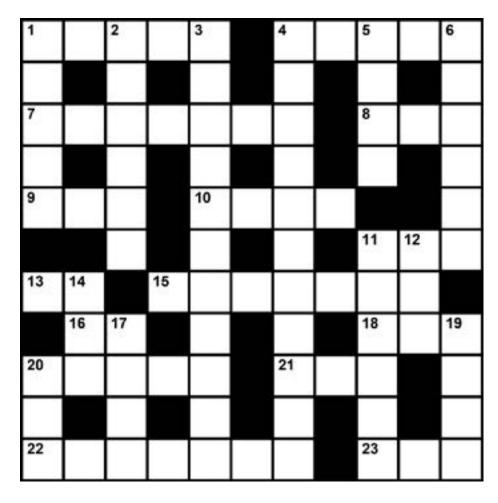
- 1 Rocket scientist's industry
- 7 Apparatus that uses power to perform a task
- 8 Time before an event
- 9 James Watt's invention, the ____ engine
- 10 Exactly fitting into a space
- 11 One who creates plans for bridges, towers, electrical circuits, etc.
- 13 Popular
- 15 The web, in general

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

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

- 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

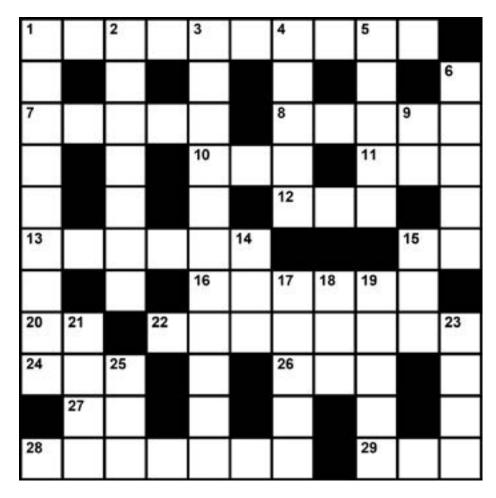
- 1 Machine operated worker
- 4 Pilotless plane, now being tested in package delivery
- 7 Transmit as in electricity
- 8 It's used before a word to mean on or above
- 9 Polite way to address an executive
- 10 Sound of a release of steam
- 11 Enjoyment
- 13 5/8s of a mile, for short

- 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

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

- 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
- 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

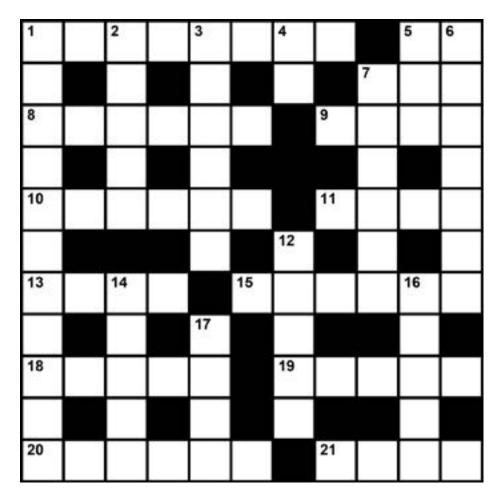
- Models made for testing and display
- 7 Concern for an architect when designing a building
- 8 stayed bridge
- 10 Sound of excitement, at a new discovery perhaps
- 11 Government agency to protect the environment, for short
- 12 Name for inspirational

- 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

- 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



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

ACROSS

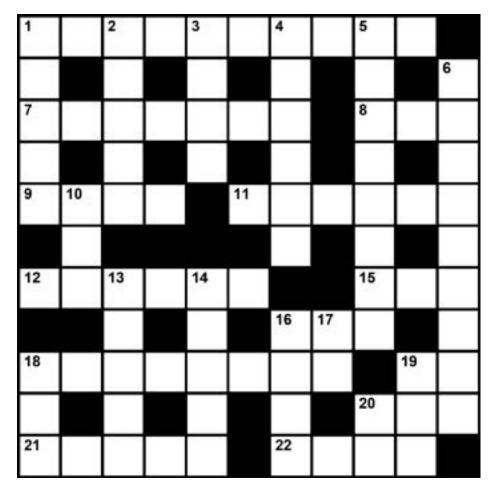
- 1 Emerging material that could change the way electronic components are made, it's a millionth the thickness of paper!
- 5 Medical professional
- 7 Important pollinator
- 8 This engineering development center is the nation's largest complex of flight simulation test facilities

- 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

- 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

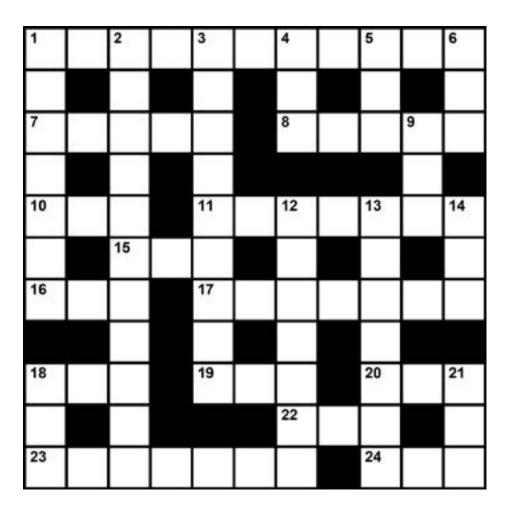
- 1 Force in a forward motion
- 7 The subject of Newton's law
- 8 And others, for short
- 9 Oxidize
- 11 Specimen for testing
- 12 Figure out logically
- 15 Wave power can be extracted from this water body
- 16 Electrical conductor that makes a common

- 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

- 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

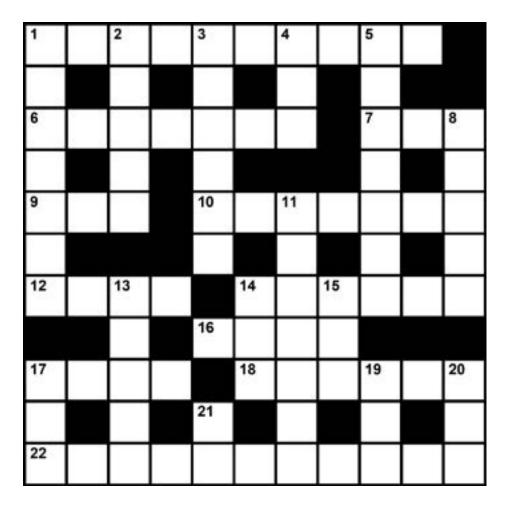
- Word meaning assisting rather than harming the environment
- 7 Large water body
- 8 Environmentally helpful
- 10 Major energy source
- 11 Class conducted online
- 15 __ trial basis— 2 words
- 16 Vote of support
- 17 Increased the voltage, for example

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

- 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



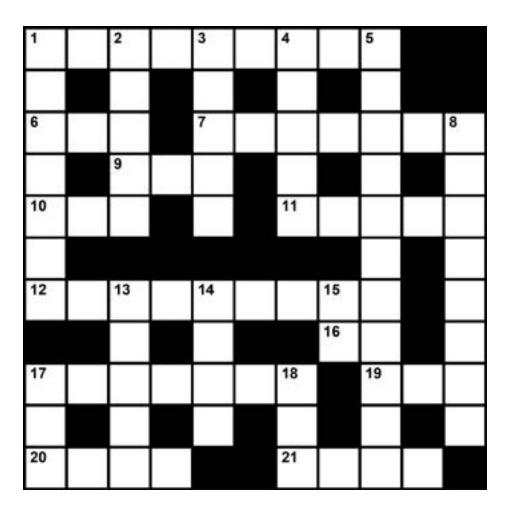
ACROSS

- 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

- 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

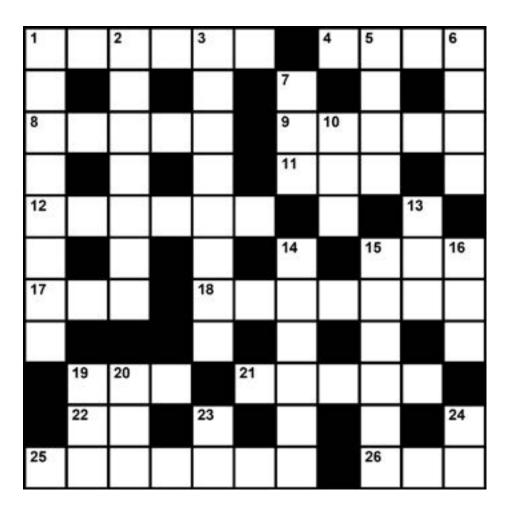
- Innovative system for freight and passenger transport within a sealed tube
- 6 Heat measurement
- 7 In aviation, these are flight paths plotting a direction for the plane
- 9 Link
- 10 Number which is the basis for the binary system
- 11 Four-sided figure
- 12 Hubble and James Webb are two famous examples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

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

- 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

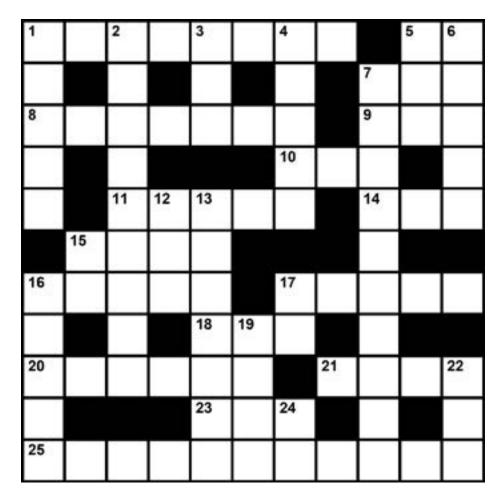
- 1 It's measured in foot-pounds
- 4 Go across
- 8 Load-bearing girder
- 9 Important part of the country's infrastructure that affects travel and transport of goods
- 11 Possess
- 12 Observing
- 15 Launching _
- 17 Put in place
- 18 Force metal through a die

- 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

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

- 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

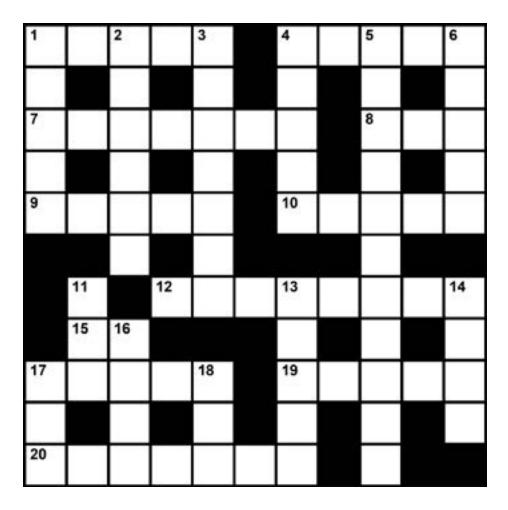
- One of the recommended math classes for an engineering career
- 5 Light strong metal, atomic number 22
- 7 Container
- 8 "x + y = z" math branch
- 9 Length of time from when a structure was built
- 10 Disfigure
- 11 Approaches

- 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

- 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

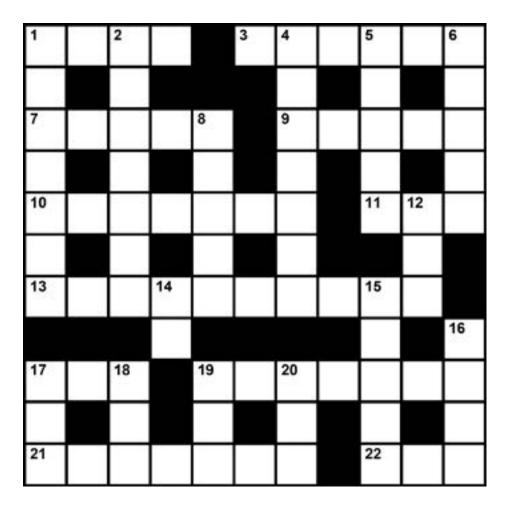
- 1 Remain on the top of water
- 4 Electricity
- 7 Flexible, as in a bungee cord
- 8 Managed
- 9 Diving gear
- 10 Weighing equipment
- 12 Response to a stimulus
- 15 Very large clothing size
- 17 Organ in the body that has an electrical system inside it

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

- 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



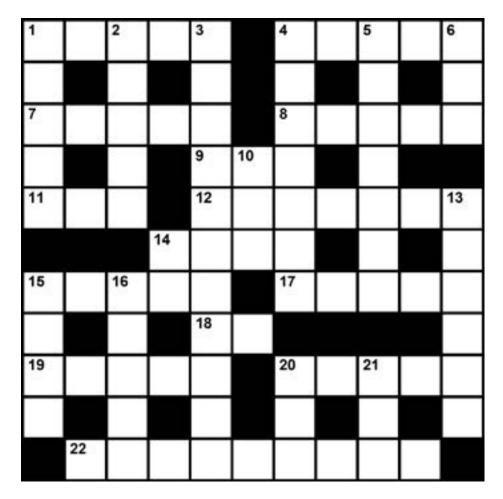
ACROSS

- 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

- 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, ____
- 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

- 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

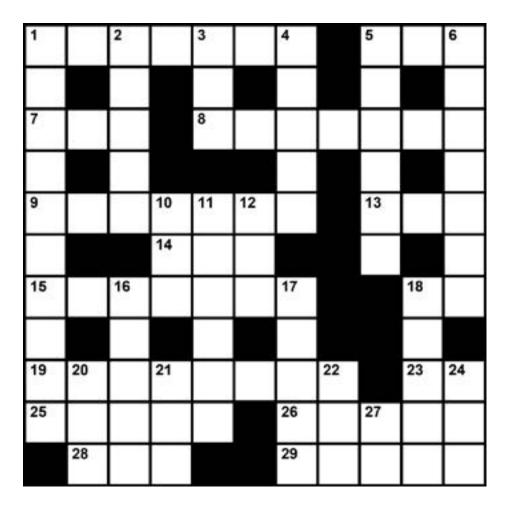
- 14 Hierarchical data structure in computer programming
- 15 Mathematical comparison
- 17 Imagine better futures
- 18 Sodium symbol
- 19 Half diameters
- 20 Important discovery in the early history of mankind
- 22 Put together

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

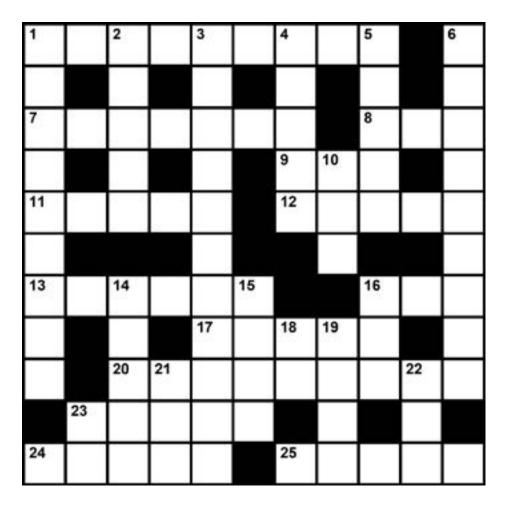
- 1 Where a current can flow
- 5 Road surface material
- 7 Automated computer program
- 8 Sideways
- 9 Bring back to the original condition
- 13 Evaluating quality
- 14 Not operational
- 15 Made a paper copy
- 18 Top grades
- 19 Branch of math
- 23 Tech department
- 25 Apply, as force
- 26 East coast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

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

- 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



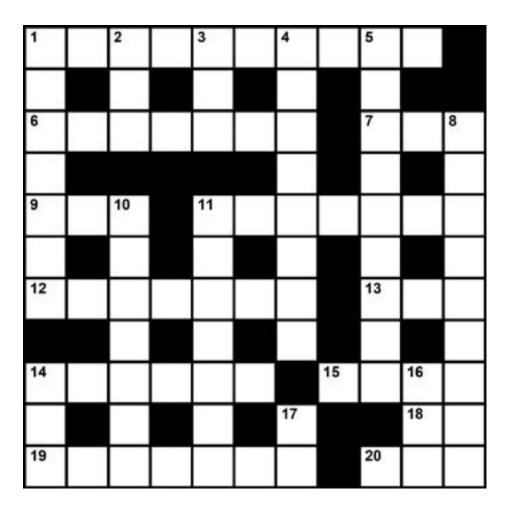
ACROSS

- 1 They orbit nuclei7 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

- 1 They affect air quality and are being controlled in cars and trucks
- 2 Fat 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

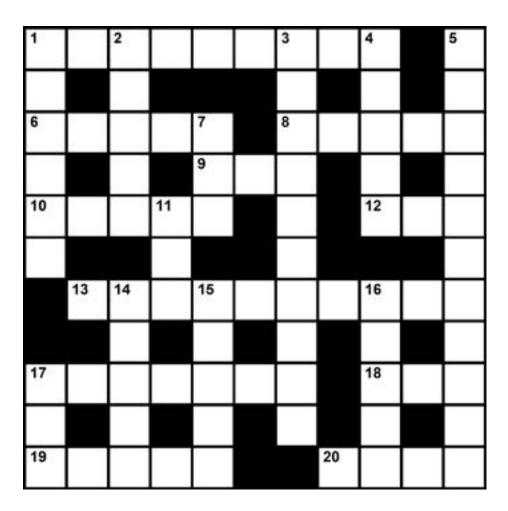
- Bitcoin uses this type of distributed and secure database
- 6 Sent an electronic message
- 7 Navigational application which gives the fastest routes
- 9 Have a stake in
- 11 Quantities
- 12 Cell that conducts nerve impulses
- 13 Old verse written in praise of something or someone

- 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

- 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

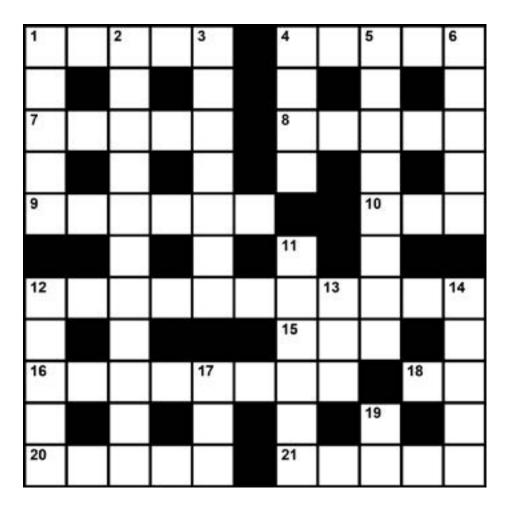
DOWN

- 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

FRICTION



ACROSS

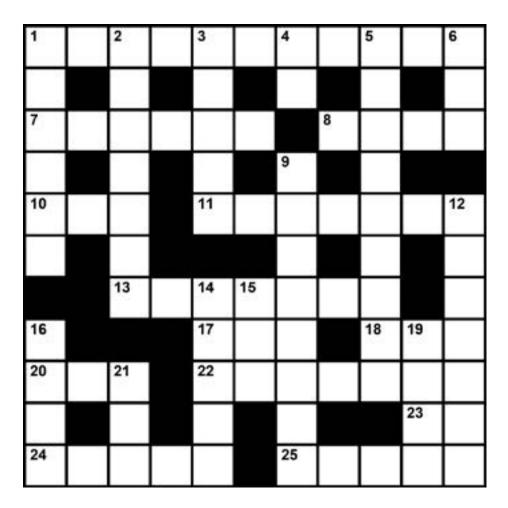
- 1 Spectrum-forming crystal
- 4 Carries a load
- 7 Connected electrically
- 8 California and Nevada lake
- 9 Equestrian's seat
- 10 Lawn piece
- 12 Semiconductor devices
- 15 About half the population
- 16 Resistance that occurs when body rubs against another

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

- 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

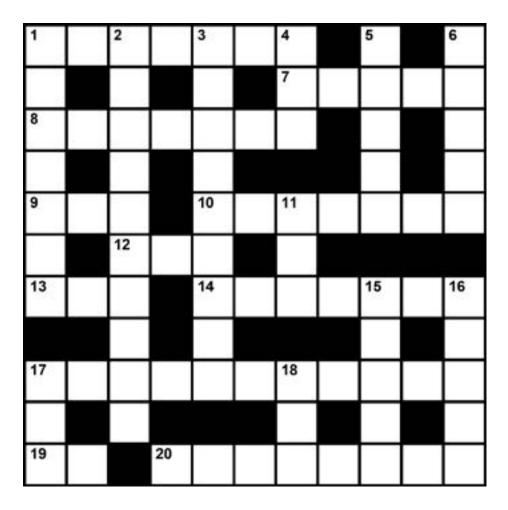
- 1 Swinging from side to side
- 7 One of the colors in the spectrum
- 8 Went round
- 10 Large tree
- 11 Lathe part
- 13 Famous "valley" which has been important for tech inventions and start-ups
- 17 Remnants of a fire
- 18 Top limit
- 20 Having a high temperature
- 22 Computer programs that

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

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

- Accelerate, an engine in a way
- 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

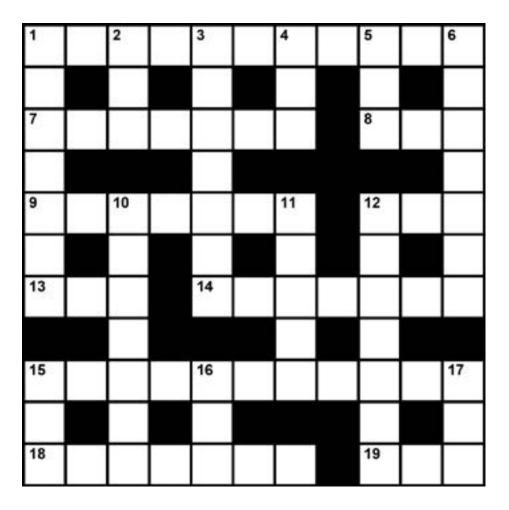
- 1 Smallest discrete quantity of some physical property that a system can possess
- 7 Negatively charged particle
- 8 Current calculator
- 9 Type of braking system
- 10 Increase the size of volume
- 12 Polyethylene terephthalate, for short (a plastic used in water bottles)
- 13 Quiet!

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

- 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

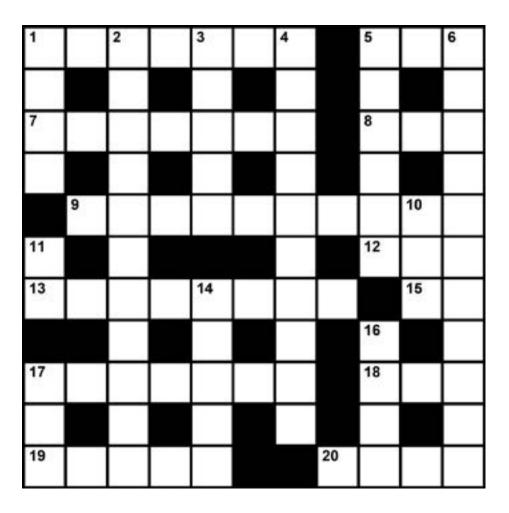
- 1 Automated, like the new cars being piloted— 2 words
- 7 Man-machine hybrids
- 8 In the center of
- 9 Very dense and stable metal
- 12 Scheduled to arrive
- 13 ____dymium, atomic number 60
- 14 Miniature keyboards
- 15 Type of power system which is renewable and

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

- 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

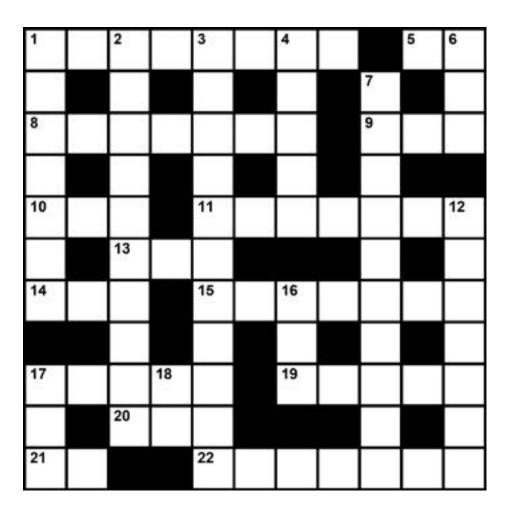
- 1 Kind of power plant
- 5 Apple operating system
- 7 1,2,3, or 4
- 8 Genetic "blueprint"
- 9 Planners and designers
- 12 Plaything
- 13 Kind of electrical charge
- 15 Operating system, abbr.
- 17 Major undertaking
- 18 Flying geese formation shape

- 19 Inventor who created the transformer
- 20 Responsibility

- 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

- 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

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

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