

GENTLE.NEWS

In Today's Edition

Technology & Innovation

How Water Helps Power the Lights in Your Home

Science & Discovery

NASA Builds Special Batteries for Moon Missions

Animals & Wildlife

Amazing Birds Dive at 70 mph Without Getting Hurt

Nature & Environment

The Giant Hidden Waves Travelling Across the Ocean

The World Today

People With Disabilities Map Barriers to Build Better Cities

Activity Time

Word Search Puzzle

*"Beautiful face. Beautiful body. Horrible attitude. It was the holy trinity of
hot boys."*

— Jennifer L. Armentrout

How Water Helps Power the Lights in Your Home

Have you ever flipped on a light and wondered where the power comes from? It takes some amazing science to bring electricity to your home. One big part of that story involves water.

Most power plants in the United States are called thermoelectric plants. These plants use water in a clever way to make electricity. First, they heat water in a giant boiler. The boiling water turns into steam. That steam pushes against a turbine and spins it around. The spinning turbine runs a generator, which creates electricity.

After the steam does its job, it needs to cool down. Cool water is used to turn the steam back into liquid. Then the whole process starts again. It is like a great big cycle, running day and night to keep our lights on.

Scientists at the U.S. Geological Survey, known as USGS, have been tracking water use since 1950. Congress asked them to keep careful records of how much water is used across the country. This helps make sure there is always enough water for everyone.

Today, USGS scientists are building new tools to measure water use even more carefully. Their work helps America plan ahead and keep the power flowing. Thanks to their dedication, the lights stay on when you need them most.

NASA Builds Special Batteries for Moon Missions

NASA scientists are working on something very exciting. They are building a new kind of battery to help astronauts live and work on the Moon.

Batteries power many things we use every day. They keep our phones and laptops running. Soon, special batteries will need to work on the Moon too.

The Moon is extremely cold, especially near its South Pole. Temperatures there can drop to 328 degrees below zero Fahrenheit. That is far colder than anything we experience here on Earth.

Normal batteries stop working in such bitter cold. So NASA researchers are creating a brand new type. These new batteries use solid materials inside instead of liquid. This makes them safer and more reliable in harsh conditions. The project has a long name, but people call it SPEARS for short.

These special batteries will power many important things. They will keep astronauts safe in emergencies. They will run rovers that explore dark craters on the Moon. NASA's plan to return humans to the Moon is called the Artemis program. These new batteries will be a key part of making that dream come true. Scientists are proud of their progress and excited about what comes next.

Amazing Birds Dive at 70 mph Without Getting Hurt

Some birds can dive into the ocean at incredible speeds. They do this to catch fish. And somehow, they don't get hurt. Scientists wanted to know why.

The birds are called gannets and boobies. They fly high above the ocean and look for fish below. When they spot a school of fish, they fold their wings and dive straight down. They hit the water at 70 miles per hour. That is very fast — faster than cars on most highways.

Scientists at the University of Washington studied these birds closely. They looked at the bones in the birds' necks. They found something special. The neck bones are extra strong and thick. They also connect to each other in a unique way. This helps hold the neck steady during the big splash.

Long ago, Charles Darwin noticed that animals develop special body parts to help them survive. He saw this in birds on the Galápagos Islands. Scientists are still finding new examples today. These diving birds are a wonderful new discovery.

It is amazing what nature can do. These birds have been diving this way for thousands of years. Their bodies became perfectly shaped for the job. Scientists hope what they learn from these birds may one day help engineers build stronger things too.

The Giant Hidden Waves Travelling Across the Ocean

Did you know there are huge waves moving through the ocean right now? You cannot see them from the beach. They travel deep underwater, far below the surface. Scientists call them Kelvin waves.

These waves are enormous. They can stretch for hundreds of miles. But they only raise the sea level by a few inches. They move slowly, about 150 miles per day. That is roughly the distance from one big city to the next.

Kelvin waves start in the western Pacific Ocean. They travel east along the equator. When they reach South America, they turn. Then they move along the coastline, north and south. Right now, one is moving up the coast of North America.

These waves play an important role in nature. They carry warm water from one side of the ocean to the other. This helps create a weather pattern called El Niño. Scientists have studied this for many years. Today they can track these waves as they travel across the ocean.

An oceanographer named Michael Jacox helps explain these waves to the public. He works with a team at NOAA, the national ocean science group. Thanks to their work, we understand our oceans better every day. The sea holds many wonderful secrets, and scientists are still discovering them.

People With Disabilities Map Barriers to Build Better Cities

In the country of Kyrgyzstan, something hopeful is happening. People with disabilities are working together to make their cities easier to navigate for everyone.

A group called Oasis is leading this important work. They are helping people with disabilities explore their city. Together, they note places that are hard to reach. Steps, narrow paths, and blocked ramps are recorded.

The people doing this work know these barriers best. They face them every single day. Their real experiences make the information very powerful and hard to ignore. This is called a community audit, and it is a smart idea.

The team uses digital tools to collect and share their findings. This means the information is clear and easy for others to understand. Good records help show where improvements are truly needed most.

This kind of work is spreading hope. When communities come together to solve problems, real change can follow. People with disabilities deserve safe, easy access to all public spaces. Projects like this one show the world that everyday people can make a big difference. Their courage and care inspire others around the globe.

Activity Time - Word Search

Find the words below in the puzzle. Words go across or down only.

Words to Find:

TURBINE ARTEMIS BATTERY WATER
WINGS NECK MOON

J	D	J	K	B	W	A	C	B	V	K
F	J	K	H	M	E	R	W	Q	R	X
M	O	O	N	R	P	T	A	K	L	J
A	V	B	W	V	T	E	B	K	K	Z
W	D	D	B	O	U	M	F	W	Y	T
A	W	P	A	U	R	I	K	P	E	V
T	V	W	T	X	B	S	P	T	N	A
E	H	I	T	T	I	X	Z	L	E	P
R	Y	N	E	C	N	B	J	B	C	F
I	I	G	R	M	E	Z	M	E	K	R
I	C	S	Y	U	Q	E	Y	C	X	G