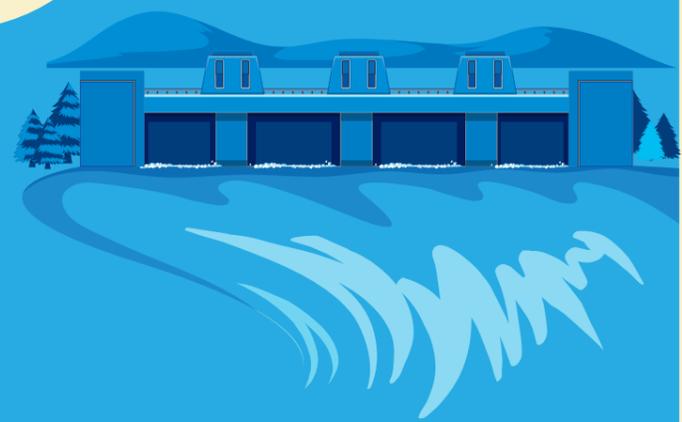Water flows following its natural course, **mathematics** precisely describes its movements, from waves to drops.

Water is an element linked to life

the city water cycle helps us understand the importance of water management.

WATER

Learning to manage water with care means building a fairer future for everyone: because protecting the environment is also a way to defend **human rights**.

From ancient aqueducts to modern algorithms, humanity has always sought to master water. With modern **technology** we design smarter showers to preserve every drop.

Studying water through **geography** helps us understanding how rivers, seas and water resources shape territories, influence cultures and determine people's living conditions.

Managing water begins with what we learn in the lab, what we program on purpose, and how we act every day.
Because preserving water isn't just science or tech, it's a **mindset** for the future.

A journey with **chemistry** to understand how to produce drinking water: a natural resource that becomes a safe and accessible good for all.

ECOSTEAM
project

*We know little about
what is 'behind' the energy
we consume, who produces it,
who transports it, what source
is used, how much
is wasted, what pollution
it causes or has caused.*

Computer science
builds smart grids
that save electricity while
you sleep.

ENERGY

History shows our impact
and science helps us change
it for a sustainable future.
With STEM we turn sunlight
into power and ideas into
a greener tomorrow.

Art
can raise awareness
about the need for clean
and sustainable energy
by creatively expressing
the urgency and beauty
of environmental preservation.

WATT

Mathematics
allows us to measure every
watt, turning numbers into
knowledge to learn how
to manage energy more
intelligently and sustainably.

From steam engines to
solar panels, **history**
is a journey of energy
transformation. Each
innovation reflects
our evolution in
understanding energy,
from the industrial
revolution to the pursuit
of sustainability.
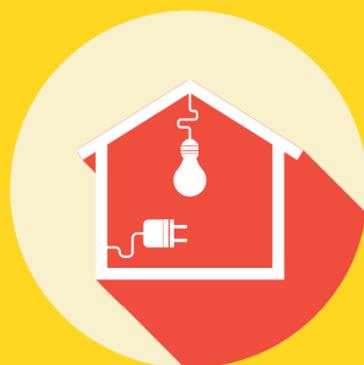
Energy shapes the **economy**! From your electricity bill to global decisions,
every source power our present and drives our future.

The management of the Integrated Waste Cycle (waste collection, street cleaning and other services that are essential for the environment, hygiene and decorum of cities) is crucial for the well-being of society. We must all work towards reduction, reuse, recycling and recovery! The European waste directive (Waste Framework Directive, 2008) is based on the 4R paradigm.

Science turns waste into resources—recycling starts with knowledge.

Managing waste is not just a technical act, but an **ethical choice** that reflects our vision of the world: what we discard reveals what we value.

Look at waste through **biology**! You can discover how each of our actions impacts ecosystems, how each waste, visible or hidden, influences food chains and natural cycles.

WASTE

From waste, electricity can be produced: transforming what we discard into energy teaches us that every **material** has potential, if we learn to use it intelligently and responsibly.

Studying waste with **mathematics** transforms numbers and data into more conscious choices. Every graph reflects our habits, every calculation guides us towards a more sustainable future.

Waste, like words, has a second life: often what we discard can be transformed into a **story**, a thought or a message that invites us to reflect.

ECOSTEAM project

We move around constantly on foot, by bicycle, scooter, car, bus, tram, train, plane, sometimes by ship. Recently with car sharing, car pooling, bike sharing, scooters, pedal-assisted bicycles. We spend a lot of time and money on transport, but the means of transport pollute.

Landscape influences urban transport planning, studying local **geography** helps determine the routes and infrastructure of mobility systems in cities.

From ancient Roman roads to modern subways, the **history** of transport for sustainable and shared mobility.

Adopting sustainable transportation is an act of **civic responsibility**: walking, cycling or using public transportation, contributes to building a more aware and sustainable society.

URBAN TRANSPORT

Cutting costs, saving resources, and aiding cities is where **economics** meets sustainable mobility.

ICT drives sustainable mobility by harnessing data and smart apps. It boosts public transport efficiency, eases congestion, and reduces environmental impact, creating greener urban solutions.

English plays a key role in understanding mobility apps, global trends, and sustainable transport practices, enabling better communication and collaboration across international platforms and initiatives.

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