

Innovation Training Module

Innovating for Water Conservation



A Morning Without Water

Riya woke up one morning, rushed to the bathroom, turned on the tap... and nothing happened.

No water.

She tried again. Still nothing.

"Mom! There's no water!" she shouted.

Her mother replied calmly, "The supply has been cut for today. We'll have to manage with what we have stored."

Riya suddenly realised how difficult her day would be – no brushing properly, no long shower, no washing her favourite water bottle easily.

Later that day, her teacher shared something surprising.

"For many people around the world," the teacher said, "this is not just one day. This is their everyday life."

Riya couldn't stop thinking about it.

That day, she decided to become something new...

A Water Detective.

Your Mission Begins

Just like Riya, you are now part of a special mission.

Your goal: **Find where water is being wasted and think of ways to save it.**

For the next two days, observe at home and in school.

Look closely. Think deeply.

Ask yourself:

- Are taps left running when no one is using them?
- Is water spilling near drinking areas?
- Are leaking taps ignored?
- Does rainwater just flow away without being collected?
- Can used water be reused for plants?

Riya noticed something shocking – one tap in her school washroom was leaking all day!

"Just one drop," she thought at first.

But then she learned something important...

Even a small leak can waste **hundreds of litres** over time.

That's when she realised – small problems can become big ones.

And small actions can create big solutions.

The Science Behind the Story

Did you know?

Even though Earth looks like a "blue planet," most of its water is salty ocean water. Only a tiny portion is fresh and usable.

And that small amount is under pressure because of:

- Increasing population
- Pollution
- Climate change
- Overuse

Scientists warn that many cities may face serious water shortages in the future.

That means the future depends on people like you.

Yes – you.



Innovation Starts with Observation

Riya didn't stop at noticing the leak.

She asked questions:

"Why is this happening?"

"Can we fix it?"

"Can we prevent it?"

That's what innovators do.

They don't just see problems.

They **solve them**.

Innovation Spotlight

Riya discovered that students across India are already creating amazing solutions:

- Collecting rainwater from rooftops and storing it.
- Using drip irrigation to water plants without wasting water.
- Installing sensors that detect leaks.
- Creating awareness campaigns to change habits.

And guess what?

Most of these ideas started with simple observations – just like Riya's.

Activity: Become the Water Innovation Officer

Now it's your turn.

Imagine your school has chosen you as the **Water Innovation Officer**.

Your mission: **Reduce water wastage by 50%.**

Take a notebook and draw your school layout.

Mark:

- Where water is used (washrooms, drinking areas, gardens)
- Where water is wasted
- One smart solution to reduce wastage

Your idea can be:

- A new system (like rainwater harvesting)
- A behaviour change (like awareness posters)
- A simple fix (like repairing leaks quickly)

Remember: Innovation is not about expensive machines.

It is about **smart thinking**.

Think Like a Scientist

Riya shared her idea with her teacher. But before implementing it, her teacher asked:

- How much water will your idea save?
- Is it affordable?
- Can it be maintained easily?
- Will people actually follow it?

Riya realised something important.

Good ideas need testing.

Great ideas need improvement.



Reflection: One Drop Can Change Everything

At the end of the week, Riya helped fix the leaking tap in her school.

It seemed like a small action.

But it saved hundreds of litres of water.

And more importantly, it inspired others.

Remember:

Big changes don't always start in big laboratories.

Sometimes, they begin with a student who notices a problem...

...and decides to act.

Innovation Question

How can your school become a Zero Water Waste Campus?

That's how scientists work.

You can test your idea too – start small, observe results, and improve it.

Challenge for Young Innovators

Now comes your real mission.

Create a **Water Audit** for your classroom or home.

Find out:

- How many taps are there?
- Are there any leaks?
- How much water is used daily?
- Where can water be saved?

You can even talk to your classmates or family members.

Ask them about their habits.

Then prepare a simple report.

Share your findings.

Suggest solutions.

Be the change – maker.

Riddles 2606

1. I travel billions of kilometres to touch Earth in 8 minutes – what am I?
2. I am everywhere but invisible, yet without me, you cannot live – what am I?
3. I can be solid, liquid, or gas, and still remain the same substance – what am I?
4. I am inside every cell, carrying the code of life – what am I?
5. I shine at night but borrow my light from another – what am I?