



# Career Compass September 2025

## Exploring Environmental Science – The Future of a Sustainable Planet

Environmental Science is more than just a subject—it's a commitment to building a better, cleaner, and sustainable world. Whether you dream of becoming a scientist, policymaker, or entrepreneur, this field allows you to make a difference.

As global citizens, we all share the responsibility to protect our planet. And for students, environmental science offers the knowledge and tools to turn that responsibility into a rewarding career.

The environmental challenges we face are significant, but so are the opportunities to make a meaningful difference. If you're passionate about creating a more sustainable future, environmental science offers the knowledge and tools to turn that passion into action.

This career guidance newsletter is based on current research and job market trends. Students are encouraged to conduct additional research into specific university programs and evolving career opportunities.

### From The Desk of The Director Principal

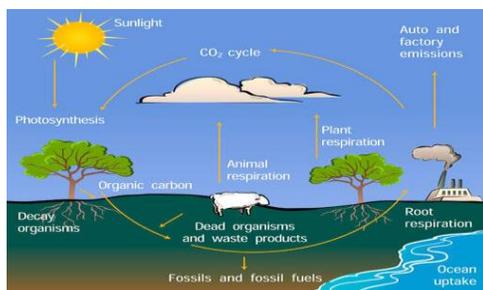
In today's world, understanding and protecting our environment is no longer a choice—it is a responsibility we all share. This edition of *Career Compass* on *Environmental Science* reminds us that the future belongs to those who respect nature and work to sustain it.

I encourage each one of you to explore how your interests can align with careers that make the world a greener, healthier place. Every small effort matter, and every idea counts. Let us be the generation that learns not just to live on Earth, but to live *with* it.

### From the Vice Principal

The challenges of climate change and environmental degradation have created new opportunities for innovation and learning. Environmental Science stands at the crossroads of technology, policy, and sustainability, offering meaningful careers that directly impact our planet's future.

As you read this edition, think about how your curiosity, creativity, and compassion can contribute to building a more sustainable world. The choices you make today will shape the Earth of tomorrow.



### From the Career Counselor

This month's *Career Compass* explores *Environmental Science*—a field that connects science, society, and sustainability. It is an area where passion meets purpose, and where young minds like yours can make a real difference.

Through this edition, I hope you gain a clearer understanding of how environmental science influences our lives, the subjects that prepare you for it, and the rewarding careers it offers. Remember, every career that serves the planet also serves humanity.



### 1. What is Environmental Science?

Environmental Science is the study of how humans interact with the natural world. It combines knowledge from various fields like biology, chemistry, physics, geography, and social sciences to understand the environment and find ways to solve problems such as pollution, deforestation, climate change, and waste management.

In simple terms, environmental science helps us answer one big question — how can we live on Earth responsibly while protecting it for future generations?

Environmental scientists work to understand the delicate balance between human needs and environmental health. Their goal is to ensure that development and progress happen in ways that don't harm the planet.

## 2. Why is Environmental Science Important?

The importance of environmental science has never been greater. We are living in a time where global warming, melting glaciers, air and water pollution, and loss of biodiversity have become serious concerns. Understanding environmental science helps us find sustainable solutions to these problems.

In the current context, environmental scientists are helping:

- Design eco-friendly cities and buildings.
- Develop renewable energy sources like solar and wind power.
- Create better waste management and recycling systems.
- Protect endangered species and restore damaged ecosystems.

In the future, careers in environmental science will become even more significant. As the world moves toward sustainable development and green technology, professionals with environmental knowledge will play a key role in shaping policies, businesses, and everyday life.



## 3. Subjects to Study for Environmental Science

Students interested in pursuing a career in environmental science should build a strong foundation in both science and geography during school.

Here's a general guide for CBSE students:

At the Secondary Level (Classes 9–10):

Focus on Science, Geography, and Social Science.

Participate in environmental awareness programs, eco-clubs, and school projects on conservation or waste management.

At the Senior Secondary Level (Classes 11–12):

Choose the Science stream (PCB or PCMB) if you enjoy biology and chemistry, or the Humanities stream if you're interested in environmental policy, geography, and social studies.

Recommended Subjects:

Biology

Chemistry

Geography

Environmental Studies / Environmental Science (if available)

Mathematics (optional but helpful)

Economics (for understanding sustainability and development)



A combination of these subjects prepares you for undergraduate programs related to the environment, sustainability, and ecology.

## 4. Job Opportunities in Environmental Science

Environmental Science offers diverse and meaningful career paths. Graduates can work in research, policy-making, corporate sustainability, education, or even entrepreneurship. Here are some popular career options:

1. Environmental Scientist – Conducts studies on pollution, soil, air, and water quality.
2. Environmental Consultant – Advises companies on how to reduce their environmental impact.
3. Climate Change Analyst – Studies climate patterns and helps governments and organizations develop strategies to mitigate global warming.
4. Wildlife Conservationist – Works on protecting endangered animals and their habitats.
5. Sustainability Expert – Helps industries and corporations adopt eco-friendly practices.
6. Environmental Engineer – Designs systems for waste management, clean water supply, and renewable energy.
7. Policy Analyst / NGO Worker – Works with government bodies or non-profits on environmental laws, advocacy, and awareness.
8. Research Scientist / Academic – Pursues further studies and contributes to environmental research and education.

## 5. Top Colleges for Environmental Science in India

Several Indian universities and colleges offer excellent undergraduate and postgraduate programs in Environmental Science and related fields. Here are some leading options:

Undergraduate Level (B.Sc / B.Tech)

University of Delhi – B.Sc. (Hons) Environmental Science

Banaras Hindu University (BHU), Varanasi – B.Sc. in Environmental Science

Fergusson College, Pune – B.Sc. in Environmental Science

Loyola College, Chennai – B.Sc. in Advanced Zoology and Biotechnology with Environmental Studies

Amity University, Noida – B.Sc. / B.Tech in Environmental Science & Engineering

Postgraduate Level (M.Sc / M.Tech)

Jawaharlal Nehru University (JNU), New Delhi – M.Sc. in Environmental Sciences

Indian Institute of Science (IISc), Bangalore – Research programs in Ecology and Environmental Science

Tata Institute of Social Sciences (TISS), Mumbai – M.A./M.Sc. in Environment, Climate Change, and Sustainability Studies

Indian Institutes of Technology (IIT Bombay, Kharagpur, Delhi) – M.Tech in Environmental Engineering or Management

TERI School of Advanced Studies, New Delhi – M.Sc. in Environmental Studies and Resource Management

Many of these programs include internships, fieldwork, and research opportunities, giving students practical exposure to real-world environmental issues.

### Events – AUG & SEPT 2025

#### Expert Talk

Dr. Aditya Abburi, esteemed faculty at Mahindra University and expert in IoT and Connected Technologies, delivered a special session for Classes XI & XII on **8 August 2025**. The talk explored and highlighted real-world IoT applications and emerging opportunities.



#### Online Session

The **University of Melbourne** organized exclusive online career guidance sessions for **Science and Commerce** students, with parents invited to join. These interactive webinars helped participants explore global study options, understand 2026 admission timelines, eligibility, scholarships, top courses, and post-study work opportunities. The **Science Stream** session was held on **30th August 2025**, and the **Commerce Stream** session on **7th September 2025**.

## Mindler Psychometric Assessment

As part of our initiative to help Class X students choose suitable academic streams, a **Psychometric Assessment** was conducted this month to evaluate their aptitude, personality, and interests. A representative from **Mindler Education Pvt. Ltd.** held an **Orientation Session** on **15th September 2025** in the **School Auditorium**, guiding students and parents on assessment techniques and dashboard usage.



**Psychometric Assessment in progress 16<sup>th</sup> – 19<sup>th</sup> September**



## INITIATIVES

### Pixels & Paper: The Graphics Club

*Initiative by Grade XI Students- Ushika Sinha & Gauri Chaturvedi with Teacher in charge Shekhar Dhama*

#### Purpose

To provide a fun, creative space where students can explore graphic design, experiment with tools and techniques, and express themselves visually through real-world projects.

#### Objectives

- 1 Encourage students to develop visual communication and design thinking.
- 2 Create student-led designs for school events, posters, and digital content.
- 3 Foster collaboration among creatively inclined students.
- 4 Offer a platform to learn and grow in digital art, editing, and sketching.

#### Key Features

- Hands-on learning with design tools and creative software.
- Opportunity to contribute to real school projects like event graphics and posters.
- Peer-based learning, idea sharing, and skill exchange.
- A mix of digital art, sketching, layout design, and visual storytelling.
- Encouragement to try new styles and express unique artistic voices.

This club will function under the guidance of the Graphics teacher- Mr. Shekhar Dhama

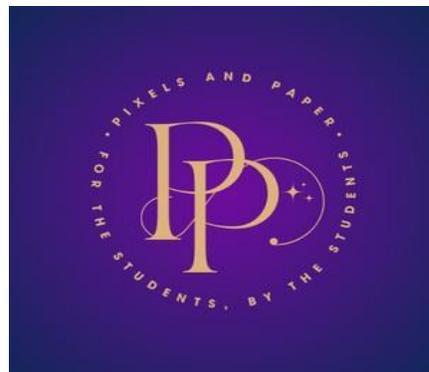
#### Benefits

- ✓ Improved creativity and visual design skills.
- ✓ Practical experience in graphic design and digital media.
- ✓ Boosted confidence through real project contributions.
- ✓ Teamwork and collaborative problem-solving.
- ✓ A supportive community of student creators making the school more vibrant and inspiring.

# PIXELS 5 PAPER

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We are delighted to present the launch of our club's dedicated space in the school newsletter! This page is designed to be a vibrant platform where creativity, innovation, and student voices come together. Our vision is to encourage expression through art, design, writing, and fresh ideas, while also sharing knowledge, tips, and inspirations that connect with every reader. We believe every student has something unique to contribute—whether it is a poem, a doodle, a thought, or even a new perspective. Through this space, we aim to celebrate talent, spark curiosity, and build a community that learns and grows together. This is your page, your voice, and your chance to shine!



## WHY DESIGN?

Ever noticed how a simple chair can make you feel relaxed or a well-laid-out app makes your day easier? That's the power of design. Design isn't just about looking good—it's about making life smoother, solving problems creatively, and shaping the way we experience the world. From the products we use to the spaces we live in, thoughtful design improves functionality, communication, and even our mood. By understanding and embracing design, we learn to turn ordinary moments into smarter, more inspiring experiences every day.

## STUDENT'S VOICE

**NAME- ADITYA CLASS- IX - E**



This artwork is a striking geometric illustration of a cat. Inspired by the playful yet mysterious nature of cats, the student chose to portray the subject using polygons and sharp edges instead of traditional curves. Each triangular shape acts like a puzzle piece, carefully arranged to bring out depth, warmth, and expression, especially in the cat's bright, watchful eyes. Through this work, the student shows how even the most ordinary subjects can be transformed into extraordinary visuals when seen from a fresh perspective.

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SHARE YOUR DESIGNS WITH GET A CHANCE TO BE FEATURED IN THE NEXT EDITION OF OUR NEWSLETTER. YOUR CREATIVITY COULD INSPIRE THE ENTIRE SCHOOL SO DON'T HOLD BACK!

SEND IN YOUR ENTRIES AND LET YOUR IMAGINATION TAKE THE SPOTLIGHT!