DARK SKY EDUCATIONAL PACKAGE

Complete Lesson Plans & Worksheets for All Ages

☐ Free Resource from Ecoplanet (greenglobe25.in)

Supporting the Dark Sky Movement Through Education

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☐ INTRODUCTION & HOW TO USE THIS GUIDE

Welcome to the complete Dark Sky Educational Package! This comprehensive resource transforms the simple concept of drawing about light pollution into structured, age-appropriate learning experiences.

☐ For Teachers:

- Each lesson includes timing, materials, objectives, and assessment options
- All activities align with environmental science curricula
- Worksheets are printer-friendly and customizable

☐ For Parents:

- Simplified versions of activities for home use
- Family engagement suggestions included
- No special materials required beyond basic art supplies

☐ For Community Educators:

- Scalable activities for different group sizes
- Cultural adaptations for Indian contexts
- Real-world action components

☐ Digital Integration:

- QR codes link to supplementary online resources
- Printable and digital worksheet options
- Social media sharing templates included

□ QUICK REFERENCE CHART

Age Group	Duration	Key Activity	Materials Needed	Main Outcome
6-9	45	Star Story Drawing	•	Basic awareness &
years	minutes	Star Story Brawing	black paper	emotional connection
10-13	90	Technical Drawings &		Problem identification &
years	minutes	Community Mapping	supplies	analysis
14-18 years	2-3 sessions	Research Project & Action Proposals	Digital tools, research access	Real community solutions
•		-		

☐ PRIMARY SCHOOL (AGES 6-9): "LITTLE STAR SEEKERS"

☐ LESSON OVERVIEW

Duration: 45 minutes **Class Size:** 15-30 students

Setting: Classroom or outdoor space

☐ LEARNING OBJECTIVES

By the end of this lesson, students will be able to:

- Distinguish between starry and light-polluted skies
- Express their feelings about nature through simple drawings
- Understand that excessive lighting affects our ability to see stars
- Make a personal commitment to helping stars stay visible

☐ MATERIALS CHECKLIST

Per Student:

- 1 sheet black construction paper
- 1 sheet white drawing paper
- Box of crayons or colored pencils
- 10-15 star stickers (gold/silver)
- 3-5 glow-in-the-dark stickers
- Worksheet template (provided)

For Teacher:

- Two large photographs: rural starry sky vs. city sky
- Flashlight for demonstration
- Optional: projector for images

☐ DETAILED LESSON PLAN

Opening Circle Time (10 minutes)

"Good morning, Star Seekers! Today we're going on a special journey to learn about the stars above us."

Activity 1: Picture Comparison

- Show two images side by side
- Ask: "What differences do you notice?"
- Guide students to observe: "In this picture, I can see many stars. In this one, where are the stars?"

Discussion Prompts:

- "Who has seen stars at night?"
- "Where did you see the most stars?"
- "Why do you think some places have more stars?"

Simple Explanation: "Sometimes when we have too many bright lights in our cities, the stars get shy and hide! They're still there, but the lights make it hard for our eyes to see them."

Main Drawing Activity: "My Sky Story" (20 minutes)

Worksheet Section A: "What I See Now" (7 minutes)

- Students draw what they can see from their bedroom window at night
- Encourage them to include: streetlights, building lights, moon, any stars

• Circulate and ask: "What lights do you see? Do you see any stars?"

Worksheet Section B: "What I Wish I Could See" (8 minutes)

- Students use black paper to create their dream night sky
- Provide star stickers and encourage creative constellation patterns
- Ask: "If you could see any stars you wanted, what would your sky look like?"

Worksheet Section C: "My Star Friend" (5 minutes)

- Students draw themselves looking up at their dream sky
- Add a speech bubble: "What would you say to the stars?"

Creative Extension: "Star Wishes" (10 minutes)

Individual Activity:

- Each student creates a "Star Wish" drawing
- Template includes a large star shape to decorate
- Inside the star, they write or draw one wish they would make to the stars

Sharing Prompts:

- "What wish did you make?"
- "Why are stars special to you?"

Wrap-up & Commitment (5 minutes)

Group Pledge: "We are Little Star Seekers! We promise to help keep the sky dark so our star friends can shine bright!"

Simple Actions Discussion:

- "Turn off lights when we don't need them"
- "Ask grown-ups to point lights down, not up"
- "Look for stars when we're outside at night"

☐ TAKE-HOME FAMILY ACTIVITY

"Family Star Hunt" Adventure:

- Students take home a simple checklist
- With parents/guardians, they spend 10 minutes outside looking for stars
- Draw or check off what they find:
 - The moon (what shape is it?)
 - o The brightest star they can see

- Any constellation shapes
- How many stars they can count

Parent Note Included: "Dear Parents, your child learned about light pollution today. This simple stargazing activity helps reinforce their learning while creating a special family moment. No astronomy knowledge required - just look up together!"

☐ ASSESSMENT OPTIONS

Informal Assessment:

- Observe student engagement during discussions
- Check drawing completion and effort
- Listen to explanations of their artwork

Formal Assessment (if needed):

- Simple worksheet with picture matching
- "Draw one thing that helps stars hide" and "Draw one thing that helps us see stars"

☐ MIDDLE SCHOOL (AGES 10-13): "SKY DETECTIVES"

☐ LESSON OVERVIEW

Duration: 90 minutes (can be split into two 45-minute sessions)

Class Size: 20-35 students

Setting: Classroom with technology access

☐ LEARNING OBJECTIVES

Students will:

- Identify and illustrate four types of light pollution
- Analyze local lighting problems using scientific observation
- Create technical drawings with measurements and annotations
- Develop community awareness materials
- Collect and interpret basic light pollution data

☐ ENHANCED MATERIALS LIST

Per Student:

- Detailed worksheet packet (8 pages)
- Ruler and protractor
- Fine-tip markers and colored pencils
- Graph paper sheets
- Smartphone or tablet (if available)

For Class:

- Light pollution measurement apps (Dark Sky Meter, Loss of the Night)
- Sample technical drawings
- Local maps for community analysis
- Poster-making supplies for extension activity

☐ DETAILED LESSON STRUCTURE

Session 1: Investigation & Analysis (45 minutes)

Opening: Become a Detective (5 minutes) "Welcome, Sky Detectives! Today you'll investigate a mystery: Where did all the stars go, and how can we bring them back?"

Mini-Lecture: Types of Light Pollution (15 minutes)

Skyglow Investigation:

- Definition: The orange/white glow above cities
- Students sketch the difference between rural vs. urban skies
- Real example: "Mumbai's skyglow can be seen from 50 km away!"

Glare Analysis:

- Definition: Excessively bright lights causing discomfort
- Interactive demonstration with flashlight
- Students draw examples from their neighborhood

Light Trespass Detection:

- Definition: Light spilling where it's not wanted
- Students identify examples: streetlights into bedrooms, neighbor's lights
- Technical drawing exercise: show light paths with arrows

Clutter Documentation:

- Definition: Too many bright lights in small areas
- Analyze photographs of busy commercial areas
- Count light sources in sample images

Worksheet Section A: Problem Identification (15 minutes) Students complete detailed analysis:

- Draw and label each type of light pollution
- Identify 3 examples from their own neighborhood
- Rate severity on a scale of 1-5
- Propose one solution for each type

Community Mapping Activity (10 minutes)

- Students use provided neighborhood maps
- Mark problem lighting areas with different colored symbols
- Add notes about specific issues observed
- Include estimated costs of wasted energy

Session 2: Solutions & Action Planning (45 minutes)

Technical Drawing Workshop (25 minutes)

Worksheet Section B: "Before & After" Engineering Students create detailed technical drawings showing:

Current Situation Drawing:

- Existing light fixtures with problems labeled
- Light spillage patterns shown with arrows
- Measurements and angles included
- Energy waste calculations

Improved Solution Drawing:

- Proposed new fixtures with shields
- Directed light patterns
- Cost estimates for improvements
- Environmental benefits quantified

Professional Presentation Skills:

- Add title blocks like real architects
- Include scale measurements

- Use proper symbols and legends
- Annotate with explanatory text

Community Action Planning (20 minutes)

Worksheet Section C: Advocacy Materials Creation Students design awareness materials for real audiences:

School Poster Design:

- Target audience: students and teachers
- Include problem, solution, and call to action
- Use data from their investigations
- Design for hallway display

Apartment Society Flyer:

- Target audience: adult residents
- Focus on cost savings and health benefits
- Include before/after visuals
- Provide specific action steps

Data Collection Assignment Setup: Worksheet Section D: Scientific Investigation Students plan week-long data collection:

- Choose 3 locations (home, school, park)
- Use apps to measure sky brightness nightly
- Record weather conditions and light sources
- Create simple graphs of their findings

☐ EXTENDED LEARNING OPPORTUNITIES

Family Interview Project:

- Interview older family members about stars they remember
- Compare past and present night sky experiences
- Document changes in their neighborhood lighting
- Create a family timeline of lighting changes

Digital Documentation:

- Take before/after photos of lighting improvements at home
- Create simple time-lapse videos of sky brightness
- Share findings on social media with #DarkSkyDetectives

☐ ASSESSMENT RUBRIC

Criteria	Excellent (4)	Good (3)	Satisfactory (2)	Needs Improvement (1)
Problem Identification	Correctly identifies all 4 types with detailed examples	Identifies 3-4 types with good examples	Identifies 2-3 types with basic examples	Identifies 1-2 types with minimal detail
Technical Drawing	Precise measurements, clear annotations, professional presentation	Good accuracy, clear labels, neat presentation	Basic accuracy, some labels, acceptable presentation	Limited accuracy, few labels, unclear presentation
Solution Development	Creative, practical solutions with cost analysis	Good solutions with basic cost consideration	Simple solutions with limited analysis	Basic solutions with no cost consideration
Community Connection	Strong local examples, actionable proposals	Good local connection, reasonable proposals	Some local connection, basic proposals	Limited local connection, unclear proposals

☐ HIGH SCHOOL (AGES 14-18): "DARK SKY ADVOCATES"

☐ COMPREHENSIVE PROJECT OVERVIEW

Duration: 2-3 weeks (project-based learning) **Format:** Individual or team projects (2-3 students) **Setting:** Classroom | community fieldwork

Setting: Classroom + community fieldwork

Final Product: Professional presentation to real stakeholders

☐ ADVANCED LEARNING OBJECTIVES

Students will:

- Analyze peer-reviewed research on light pollution impacts
- Conduct quantitative measurements using scientific instruments
- Develop evidence-based policy recommendations
- Create professional-quality infographics and presentations
- Present actionable proposals to community decision-makers
- Understand the intersection of environmental science, public policy, and community advocacy

☐ COMPREHENSIVE MATERIALS & RESOURCES

Research Tools:

- Access to scientific databases (Google Scholar, NASA resources)
- Light measurement equipment (Sky Quality Meters if available)
- Professional apps: Dark Sky Meter, Globe at Night
- Survey tools for community interviews

Design & Presentation Tools:

- Digital design software (Canva Pro, Adobe Creative Suite, or free alternatives)
- Presentation software with advanced features
- Video editing tools for documentary segments
- Professional printing access for final materials

Community Access:

- Contact information for local officials
- Access to community meetings or presentation opportunities
- Permission for student research in community spaces

□ PROJECT PHASES

Phase 1: Research & Scientific Analysis (Week 1)

Worksheet Section A: Literature Review (2-3 hours) Students conduct systematic research on:

Health Impacts Research:

- Circadian rhythm disruption studies
- Sleep disorder connections to artificial lighting
- Mental health impacts of light pollution
- Economic costs of health impacts

Environmental Impact Analysis:

- Wildlife disruption patterns (birds, insects, marine life)
- Ecosystem disruption case studies
- Climate change connections through energy waste
- Biodiversity loss documentation

Economic Impact Assessment:

- Energy waste calculations for their city
- Infrastructure costs of inefficient lighting
- Tourism potential of dark sky preservation
- Property value impacts of light pollution

Worksheet Section B: Local Data Collection Project Students design and implement scientific study:

Quantitative Measurements:

- Sky Quality Meter readings across 10+ locations
- Photography documentation with consistent camera settings
- Energy consumption analysis of local lighting
- Cost-benefit analysis of proposed improvements

Qualitative Research:

- Community surveys (minimum 50 responses)
- Expert interviews (astronomers, city planners, health professionals)
- Historical research on lighting changes in their area
- Cultural impact assessment (festivals, traditions affected)

Phase 2: Solution Development & Design (Week 2)

Worksheet Section C: Technical Solution Design Students create comprehensive improvement plans:

Engineering Solutions:

- Detailed CAD-style drawings of improved lighting fixtures
- Energy efficiency calculations with payback periods
- Installation timeline and cost estimates
- Maintenance schedules and long-term planning

Policy Recommendations:

- Draft lighting ordinances based on successful models
- Zoning considerations for different area types
- Enforcement mechanisms and compliance strategies
- Incentive programs for voluntary adoption

Worksheet Section D: Professional Communication Materials Students create multiple formats for different audiences:

Infographic Series (3-5 designs):

- Scientific data visualization
- Cost-benefit analysis charts
- Before/after scenario illustrations
- Action step guides for different stakeholders

Documentary Video (3-5 minutes):

- Problem demonstration with local footage
- Expert interviews and community voices
- Solution visualization with graphics
- Call to action with specific next steps

Professional Proposal Documents:

- Executive summary for busy decision-makers
- Detailed technical specifications for implementation
- Budget analysis with funding source suggestions
- Timeline with measurable milestones

Phase 3: Community Engagement & Presentation (Week 3)

Worksheet Section E: Stakeholder Engagement Strategy Students develop targeted approach for different audiences:

School Administration:

- Focus on educational benefits and cost savings
- Propose pilot program for campus lighting
- Include student leadership opportunities
- Connect to existing sustainability initiatives

Local Government:

- Emphasize public health and economic benefits
- Provide comparison with successful programs in similar cities
- Include voter appeal and community support data
- Offer partnership opportunities with schools

Community Organizations:

- Connect to existing environmental or astronomy groups
- Propose collaborative implementation strategies
- Include volunteer opportunity structures
- Design social media campaigns for awareness

Final Presentations (50 minutes class + real-world presentation) Students deliver professional presentations including:

- 10-minute formal presentation with visual aids
- 5-minute Q&A session with prepared responses
- Distribution of professional handout materials
- Follow-up plan for continued engagement

☐ ADVANCED ASSESSMENT STRUCTURE

Portfolio Assessment (60% of grade):

- Complete research documentation with citations
- Professional-quality design materials
- Evidence of community engagement
- Reflection on learning process and outcomes

Presentation Assessment (25% of grade):

- Clarity and professionalism of delivery
- Quality of visual aids and supporting materials
- Effectiveness of audience engagement
- Ability to answer questions knowledgeably

Community Impact Assessment (15% of grade):

- Evidence of real-world application
- Stakeholder feedback documentation
- Follow-through on commitments made
- Measurable outcomes achieved

☐ REAL-WORLD EXTENSION OPPORTUNITIES

Advanced Pathways:

- Internships with local environmental organizations
- Collaboration with professional astronomers or city planners
- Competition entry in environmental science fairs
- Publication of findings in student research journals

Long-term Impact Tracking:

- Follow-up surveys to measure community changesDocumentation of policy changes influenced by student work
- Mentoring of younger students in similar projects
- Development of ongoing dark sky advocacy programs

□ PRINTABLE WORKSHEET TEMPLATES

Template 1: "My Night Sky Observatory" (All Ages)
Observation log for tracking changes over time
Student Name: Date:
Location:
Weather Conditions: ☀ Clear ► Partly Cloudy ► Cloudy
Time of Observation: PM
What I Can See Tonight:
 Moon: ○ New ○ Crescent ○ Half ○ Full Stars: ○ None ○ Few (1-10) ○ Some (11-50) ○ Many (50+) Planets: ○ None visible ○ 1-2 bright "stars" ○ Multiple Other:
Light Sources I Notice: □ Street lights □ House lights □ Car lights □ Signs/billboards □ Other:
My Drawing: [Large blank space for sketch]
How This Makes Me Feel: □ Happy □ Neutral □ Sad □ Amazed □ Curious
Notes:

Template 2: "Light Pollution Detective Sheet" (Ages 10+)

Problem	identification and analysis guide
Investiga	ation Location:
Date &	Γime: Investigator:
Type 1:	SKYGLOW
• C	Oo you see a glow above the city/town? O Yes O No Color of glow: O Orange O White O Pink O Other: Iow bright is it? O Faint O Moderate O Very bright Oraw what you see: [Box for drawing]
Type 2:	GLARE
• V	Are any lights uncomfortably bright? Yes No Which lights cause problems? Street lights Security lights Signs Other: Oraw the problem: Box for drawing]
Type 3:	LIGHT TRESPASS
• V	Ooes light spill where it shouldn't? ○ Yes ○ No Where does unwanted light go? □ Into windows □ Into yards □ Into natural areas □ Other: Who might be bothered by this light? □ People sleeping □ Animals □ Plants □ Other:
• <u>D</u>	Draw the light path: [Box for drawing]
Type 4:	CLUTTER
• V C • H	Are there too many lights in one area? • Yes • No What types of lights create clutter? Street lights Signs Buildings Vehicles Other: Iow many light sources can you count? Oraw the cluttered area: [Box for drawing]
My Solu	tion Ideas:
1	
2. – 3. –	

Action I Can Take: □ Talk to family about our lights □ Contact school about campus lighting □ Share information with neighbors □ Other:
Template 3: "Before & After Magic" (All Ages)
Comparison drawing template
Location:
BEFORE: How It Looks Now [Large box for drawing current situation]
Problems I Notice: □ Too many lights □ Lights pointing up □ Very bright lights □ Can't see stars □ Hard to sleep □ Animals confused □ Other:
AFTER: My Improved Vision [Large box for drawing improved situation]
My Improvements: □ Fewer lights □ Lights pointing down □ Dimmer lights □ Can see stars □ Better sleep □ Animals happy □ Other:
How to Make This Happen: Step 1: Step 2: Step 3:
Who Can Help: □ Parents/Family □ Teachers □ Neighbors □ City officials □ Other:
Template 4: "Community Action Planner" (Ages 10+)
Solution development worksheet
My Community:
Target Audience: Students Parents Teachers Neighbors Officials
The Problem: [3-4 sentences describing the specific issue]

Why It Matters: [2-3 reas	ons why people should care]	
1. —		
My Solution: [Detailed de	scription of what should change]	
	: Step 1:	
	Step 3:	Step 4:
Resources Needed:		
• Money: \$ or		
• Time: hours		
 reopie Materials: 		
Fimeline:	People reached: individuate	
Start date:Check progress:		
• Target completion:		
T. 14 5 UG4 NA	4.63 411.74 9.1	
Template 5: "Star Me	asurement Chart'' (Ages 8+)	
Data collection template		
My Name:	Week of:	
Day Time Weather Lo	cation Stars Visible* Sky Brig	htness** Notes
MonPM		
Wad DM		

Day	Time Weather Location Stars Visible* Sky Bright	ness** Notes
Thu _	PM	
	PM	
Sat	PM	
	PM	
	ructions: *Stars Visible: Count stars in a small area of sky	y, then estimate total **Sky
My V	Weekly Analysis:	
•	Worst night for stargazing:	
Patte	terns I Notice:	
Tem	mplate 6: "Family Interview Guide" (All Ages)	
Interg	rgenerational learning tool	
Inter	erviewer: Interview Date:	
	son I'm Interviewing: Their Age: Where Their Age: Where Their Age: Their Age: Their Age: Their Age: Where The Age: Their Age: Their Age: Where The Age: Where Wh	eir Relationship to Me: ney Grew Up:
Quest	estions About the Past:	
1.	1. "When you were my age, what did the night sky look l	ike?"
2.	2. "How many stars could you see on a typical night?"	

	rawing of Their Childhood Sky: [Large box for artistic interpretation] I Learned:
10.	"How can we work together to bring back the stars?"
9.	"What would you like the night sky to look like for future generations?"
Questi	ons About the Future:
8.	"What do you think caused these changes?"
7.	"When did you first notice fewer stars?"
6.	"How has the night sky changed since you were young?"
Questi	ons About Changes:
5.	"Did your family ever go stargazing together?"
4.	"What kinds of lights were in your neighborhood at night?"

How This Changes My Thinking:

\square ASSESSMENT RUBRICS

Primary School Rubric (Ages 6-9)

Skill Area	Excellent	Good	Developing
Understanding	Shows clear understanding of why stars "hide" with too many lights	Shows basic understanding of light/star relationship	Shows some awareness of the topic
Creativity	Drawing shows imagination and personal connection to stars	Drawing shows effort and some creative elements	Drawing shows basic completion
Participation	Actively engages in discussions and activities	Participates when encouraged	Participates minimally
Commitment	Shows enthusiasm for helping stars, makes specific pledges	Shows interest in helping, makes general commitments	Shows some interest in the topic

Middle School Rubric (Ages 10-13)

Criteria	Excellent (4)	Good (3)	Satisfactory (2)	Needs Improvement (1)
Scientific Understanding	Accurately identifies all types of light pollution with detailed explanations	Identifies most types with good explanations	Identifies some types with basic explanations	Limited identification and explanation
Technical Skills	Precise measurements, professional-quality drawings, clear annotations	Good accuracy in measurements and drawings	•	Limited accuracy, unclear presentation
Problem Analysis	Thorough analysis of local issues with multiple solutions proposed	Good analysis with practical solutions	Basic analysis with simple solutions	Limited analysis, unclear solutions
Communication	Clear, compelling presentation of ideas	Good communication	Basic communication	Unclear communication,

Criteria	Excellent (4)	Good (3)	Satisfactory (2)	Needs Improvement (1)
	to target audience	with minor unclear areas	that conveys main ideas	difficult to follow
Data Collection	Systematic, accurate data collection with insightful analysis	Good data collection with reasonable analysis	Basic data collection with simple analysis	Limited or inaccurate data collection

High School Rubric (Ages 14-18)

Category	Exemplary (A)	Proficient (B)	Developing (C)	Beginning (D/F)
Research Quality	Comprehensive research using multiple credible sources, proper citations, original analysis	Good research with credible sources, mostly proper citations, some analysis	Basic research with adequate sources, citation errors, limited analysis	Poor research quality, unreliable sources, major citation issues
Technical Accuracy	All measurements and calculations accurate, professional-level technical drawings	Most measurements accurate, good technical drawings	Some accuracy issues, acceptable technical work	Significant accuracy problems, poor technical work
Solution Development	Innovative, practical solutions with detailed implementation plans and cost analysis	Good solutions with reasonable implementation plans	Basic solutions with simple implementation ideas	Unclear or impractical solutions
Professional Communication	Polished, persuasive materials appropriate for target audiences, excellent presentation skills		Adequate materials, acceptable presentation	Poor quality materials, unclear presentation
Community Impact	Demonstrates real engagement with stakeholders, measurable outcomes achieved	Shows good community connection, some outcomes	Basic community engagement, limited outcomes	Little to no community engagement

□ ADDITIONAL RESOURCES & REFERENCES

☐ Online Resources

Educational Websites:

- NASA's Night Sky Network: nasa.gov/centers/goddard/night-sky-network
- International Dark-Sky Association: darksky.org/education
- Globe at Night: globeatnight.org
- Light Pollution Map: lightpollutionmap.info

Mobile Apps for Data Collection:

- Dark Sky Meter (iOS/Android)
- Loss of the Night (Android)
- SkySafari (iOS/Android)
- Star Walk (iOS/Android)

Indian Resources:

- Astronomical Society of India: astron-soc.in
- Indian Institute of Astrophysics: iiap.res.in
- Nehru Planetarium Network: nehruplanetarium.org

☐ Recommended Reading

For Teachers:

- "The End of Night" by Paul Bogard
- "Artificial Light in the Environment" by Gaston, Davies & Bennie
- Environmental Science textbooks with light pollution chapters

For Students:

- "13 Planets" by David A. Weintraub (middle/high school)
- "The Magic School Bus Lost in the Solar System" (elementary)
- National Geographic Kids astronomy magazines

☐ Video Resources

Documentary Recommendations:

- "The City Dark" (2011) Feature documentary
- "Losing the Dark" (8 minutes) IDA educational video
- "Light Pollution A Bright Problem" NASA educational series

YouTube Channels:

- Crash Course Astronomy
- SciShow Space
- National Geographic Kids

☐ Museum & Planetarium Resources

Major Indian Planetariums:

- Birla Planetarium, Kolkata: birlaplanetarium.org
- Nehru Planetarium, Mumbai: nehruplanetarium.org
- Jawaharlal Nehru Planetarium, Bengaluru: taralaya.org

Science Museums with Astronomy Programs:

- Visvesvaraya Industrial & Technological Museum, Bengaluru
- Science City, Kolkata
- Regional Science Centre, Pune

☐ Contact Information for Support

For Technical Questions:

- Email: education@greenglobe25.org
- WhatsApp Support: [Include number]

For Community Implementation:

- Partnership requests: partnerships@greenglobe25.org
- School program inquiries: schools@greenglobe25.org

☐ Credits & Acknowledgments

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- Soumen Chakraborty, Environmental Writer
- Dr. [Name], Astronomy Education Consultant
- [Names], Teacher Review Panel

Educational Consultation:

- NCERT Environmental Science Guidelines
- NASA Educational Resource Guidelines
- International Dark-Sky Association Educational Standards

Community Partners:

- [Local astronomy clubs]
 [School districts that piloted materials]
 [Environmental organizations that provided feedback]