

Planner

Activity	Description	Materials and Technology	Additional Materials	Approximate Timing	Page Number
Task 1: What elements do humans add to systems they are in together?					
Discover	Find personal connections to the atmosphere and other team members.	<ul style="list-style-type: none"> • Paper • Pen or pencil • String • Tape 	<u>Identity Map</u> <u>Team System Map</u>	60 minutes	6
Understand	Explore how different human senses affect how we experience the atmospheric system.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Digital device, such as computer or phone (optional) 	<u>Senses System Map</u>	40 minutes	13
Act	Identify elements of our shared future system.	<ul style="list-style-type: none"> • Paper • Pen or pencil 	<u>Futures Mood Board</u>	25 minutes	16
Task 2: How do humans develop relationships in a system when they're working together?					
Discover	Explore the relationships humans form between elements in a system.	<ul style="list-style-type: none"> • Pen or pencil • Paper or board • Ball of string or yarn • Flip chart or board • Slips of paper 	<u>Futures Mood Board</u> <u>Senses System Map</u>	30 minutes	19
Understand	Learn about how humans adapt relationships around shared problems.	<ul style="list-style-type: none"> • Long string or rope • Blindfolds (optional) 		40 minutes	21
Act	Identify how you can expand who you work with in your community.	<ul style="list-style-type: none"> • Pen or pencil • Paper 		30 minutes	25



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Task 1: How do humans build relationships with weather and climate?					
Discover	Identify the differences between weather and climate across the planet.	<ul style="list-style-type: none"> • Paper • Pen or pencil 		30 minutes	36
Understand	Explore how we know the climate is changing over time.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Computer (optional) or access to information sources such as a library 		40 minutes	39
Act	Express your relationship with changes to the climate.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Camera or computer (optional) 		40 minutes	46
Task 2: What relationships does my community have with climate?					
Discover	Identify which climate elements are important to people in my community.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Recording device (optional) 		60 minutes	54
Understand	Explore how people receive and express information about climate in the community.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Access to print or online resources 	Survey data from Discover	40 minutes	58
Act	Conduct research on how people in the community relate to different forms of climate information.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Access to print or online resources • Recording device (optional) 		60 minutes	64



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Task 1: How do humans understand energy elements in the atmosphere?					
Discover	Learn how humans express their current understanding about energy in Earth's system.	<ul style="list-style-type: none"> • Paper • Pen or pencil 		30 minutes	80
Understand	Model energy within Earth's system.	<ul style="list-style-type: none"> • 20–50 balls, rolled-up socks, or crumpled pieces of paper or aluminum foil • 2 baskets or buckets • Watch or timer • Colored tape (optional) 		40 minutes	85
Act	Communicate about energy elements in Earth's system to people in your community.	<ul style="list-style-type: none"> • Paper • Pen or pencil 		40 minutes	91
Task 2: How do changes in the atmosphere affect Earth's energy in the system?					
Discover	Understand the natural and human additions of greenhouse gases into the system.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Bottle with cap or lid • Thermometer • Watch or timer 		60 minutes	93
Understand	Model how greenhouse gas additions and removals affect Earth's energy system.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Game cards • 2 dice • 50 small objects, such as rocks, marbles, or cotton balls 		40 minutes	100
Act	Identify where you can research greenhouse gas additions in your community.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Paper or digital maps of your local area 		60 minutes	111



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Task 1: How has humanity changed its lifestyles over time?					
Discover	Observe and think about how human life has changed over the last thousand years.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Paints and brushes (optional) 	<u>My Research Area</u> map	45 minutes	126
Understand	Identify the sources of greenhouse gas additions in your community.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Audio/video recording device (optional) 	<u>My Research Area</u> map	60 minutes	131
Act	Imagine how your community's greenhouse gas additions might change.	<ul style="list-style-type: none"> • Paper • Pen or pencil 	<u>Community Greenhouse Gas Emissions</u>	45 minutes	134
Task 2: How do human lifestyles connect to greenhouse gas additions?					
Discover	Identify the elements of your lifestyle that are related to greenhouse gas additions.	<ul style="list-style-type: none"> • Pen or pencil • Paper 		60 minutes	138
Understand	Explore what influences human lifestyle choices in your community.	<ul style="list-style-type: none"> • Pen or pencil • Paper 		40 minutes	140
Act	Imagine the lifestyle choices you would like to see in the future.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Picture or drawing of you and community members • Scissors • Tape or glue 		60 minutes	143



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Task 1: What individual action strategies will we use?					
Discover	Outline all the different individual actions you can take.	<ul style="list-style-type: none"> • Paper • Pen or pencil 		30 minutes	154
Understand	Explore what motivates people to take action.	<ul style="list-style-type: none"> • Paper • Pen or pencil 	<u>Mitigation Strategies</u> <u>Futures Mood Board</u>	40 minutes	159
Act	Identify which individual mitigation strategy you will use.	<ul style="list-style-type: none"> • Paper • Pen or pencil 	<u>Identity Map</u> <u>Mitigation Strategies</u>	30 minutes	161
Task 2: How can we measure mitigation progress?					
Discover	Determine how you will measure progress on your mitigation strategy.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Recording device (optional) 	<u>Mitigation Strategy Venn Diagram</u>	30 minutes	164
Understand	Research your current actions to establish a baseline.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Access to print or online resources (optional) 	<u>Additions from Lifestyle Calculator</u>	60 minutes	166
Act	Outline your commitment to act in the future.	<ul style="list-style-type: none"> • Pen or pencil • Paper 	<u>Research Organizer</u>	30 minutes	168



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Task 1: How can we collaborate locally to collectively take action for climate mitigation?					
Discover	Explore the advantages of collective action.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Blanket, sheet, or large piece of cloth • Timer or clock 		40 minutes	178
Understand	Learn the differences between incremental change and system transformation.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Three objects, such as soft balls or stuffed toys • Timer or clock 		40 minutes	181
Act	Identify who is already engaged in collective action in the community.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Access to print or online resources 	<u>Mitigation Strategies</u>	40 minutes	185
Task 2: How are people globally taking collective climate action?					
Discover	Think more about why we need global collaboration.	<ul style="list-style-type: none"> • Pen or pencil • Paper 		20 minutes	188
Understand	Explore different global collaborative mitigation strategies that already exist.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Access to print or online resources 		60 minutes	190
Act	Identify which global mitigation group you could participate with.	<ul style="list-style-type: none"> • Pen or pencil • Paper • Access to print or online resources 	<u>Global Climate Mitigation Organization Investigation</u>	30 minutes	196



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Task 1: How can we prepare to take individual or collaborative actions in the system?					
Discover	Identify the relationships between different mitigation strategies in the system.	<ul style="list-style-type: none"> • Paper • Pen or pencil 	Lists of mitigation strategies from Parts 5 and 6	30 minutes	204
Understand	Analyze the system to find places where you could make a difference.	<ul style="list-style-type: none"> • Paper • Pen or pencil • Sticky notes (optional) 	<u>Complex Mitigation System Diagram</u>	30 minutes	206
Act	Determine which part of the system you will act to help.	<ul style="list-style-type: none"> • Paper • Pen or pencil 	<u>Futures Mood Board</u> <u>Complex Mitigation System Diagram</u>	30 minutes	206
Task 2: How will I contribute to actions in the atmospheric system?					
Discover	Explore all the actions you could take.	<ul style="list-style-type: none"> • Pen or pencil • Paper 	<u>Complex Mitigation System Diagram</u>	30 minutes	208
Understand	Determine what your role will be when collaborating and communicating in the system.	<ul style="list-style-type: none"> • Pen or pencil • Paper 	<u>Identity Map</u>	40 minutes	209
Act	Put your ideas into action.	<ul style="list-style-type: none"> • Pen or pencil • Paper 	<u>Action Plan</u>	Your entire life	212

