



## Engage, Lesson #1: Ecosystem Services BINGO!

These materials are all part of EPA Report #: EPA/600/R-18/231.

### Time Consideration

**Prep time:** 0-5 minutes, **Activity time:** 15-20 minutes

### Materials

Printed handouts, clipboards, writing utensils, an area outside to observe the environment

### Teacher Preparation

1. Print all of the **Ecosystem Services BINGO!** cards. There are ten different cards, with and without images for different ages or abilities of students. **All of the BINGO cards can be found in the Appendix.**
2. Get writing utensils for all of the students.
3. Place the BINGO cards on clipboards with writing utensils for the students to use. Having the students work in pairs is recommended.

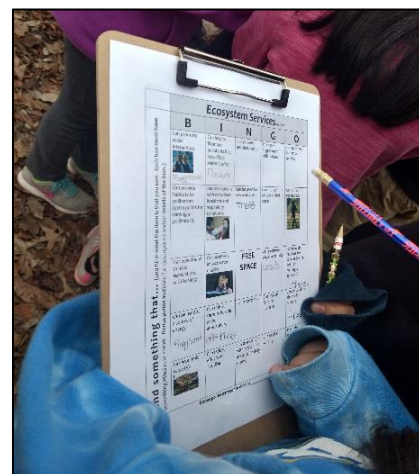


Figure 1. Example of “Ecosystem Services BINGO” card, available in Appendix 2.

### Procedure

1. Talk about the concept of **ecosystem services**: **providing the benefits that humans receive from nature** with your students. Have students provide examples of ecosystem services and related human benefits.  
*Examples of ecosystem services: trees provide oxygen which we breathe; trees provide shade on the playground (US EPA 2008); wetlands filter water (Vellidis et al., 2003); forests provide places for people to recreate (Kline et al., 2011). Examples of human benefits: reductions in stress and anxiety from spending time at the beach (MacKerron & Mourato 2013); reduced symptoms of post-traumatic stress disorder after spending a weekend fly-fishing by the river (Vella et al., 2013).*



2. Explain that you're going to examine your local environment and to look there for elements on the BINGO cards. Tell students that when they find something outside that fits the slots on their BINGO cards, they should write in some details about it. For example, in the "Can positively impact air quality" BINGO slot, the students could write "trees remove pollutants from the air."

**ESL/ELL tip: Allow students to draw images instead of writing words in their BINGO cards.**

*Optional: Use Power Point slides with images of different ecosystems as a guide to walk your class through the entire activity indoors.*

3. Once outside, walk through the natural environment wherever you are (playgrounds, fields, and woods work well). Narrate some of the things you see and have ongoing discussions with students as they discover ecosystem services right in front of their eyes and around their schoolyards.
4. **Evaluate:**  
Discuss ecosystem services elements as you see them outdoors. These informal conversations during the activity can help evaluate student understanding.



Figure 2. Students find a flower for pollination as they explore local ecosystem services during the "Ecosystem Services BINGO" activity.



Figure 3. Mrs. Jennifer Carson, ESL 4th and 5th grade teacher at Grady A. Brown Elementary School in North Carolina, instructs students on the ecosystem services in their schoolyard during "Ecosystem Services BINGO."



## APPENDIX

### Lesson #1: Ecosystem Services BINGO!

- The cards that follow are all the same on the front side but are different on the back side (the BINGO side) so that you can give different cards to different pairs of students. There are ten cards total, and they are numbered 1-10. It is recommended that students work in groups of two, so this would work well with a class size of 20.
- There are also cards without images. Those cards can be used for upper-level students. They have the exact same layouts as the 10 cards with images.



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## Ecosystem Services BINGO!

As you spend some time outside with your class, fill in the BINGO card on the back of this page.

Name(s): \_\_\_\_\_ Date: \_\_\_\_\_

**Ecosystem services** provide the benefits that humans receive from nature. They underpin almost every aspect of human well-being, including our health, security, and economy.

- Many of the decisions we make, from how we develop communities to how we manage the land surrounding our communities, impact ecosystem services.
- We are not always aware of the links between our environment and our well-being, so we may not always take the true value of ecosystems and their services into account when we make decisions.
- Considering ecosystems and their services in our policies and decision-making could help us better manage our resources in a way that would benefit us economically, environmentally, and socially.
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h1 style="margin: 0;">Ecosystem Services</h1> <p style="margin: 0;">card 1</p> </div> <div style="border: 1px solid black; padding: 5px;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can positively impact air quality:	Can promote social interaction: 	Can positively impact water quality: 	Can be like a filter:	Can be used for shelter for humans:
	Has economic value (\$): 	Can provide recreation: 	Can be used for raw materials:	Can reduce effects of flooding:	Can reduce effects of hot days:
	Can promote physical activity:	Promotes engagement with nature:	<b>FREE SPACE</b>	Can be used as a source of energy:	Can provide food for humans:
	Promotes positive human health outcomes (which ones?):	Can inspire art:	Has associations with reductions in respiratory symptoms: 	Has associations with reductions in stress/anxiety (how?):	Can provide aesthetic value:
	Can provide habitats for species (extra points for naming a species!):	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can help to filter pollutants that may affect water quality:	Has been found to have associations with healing:	Can inspire writing:



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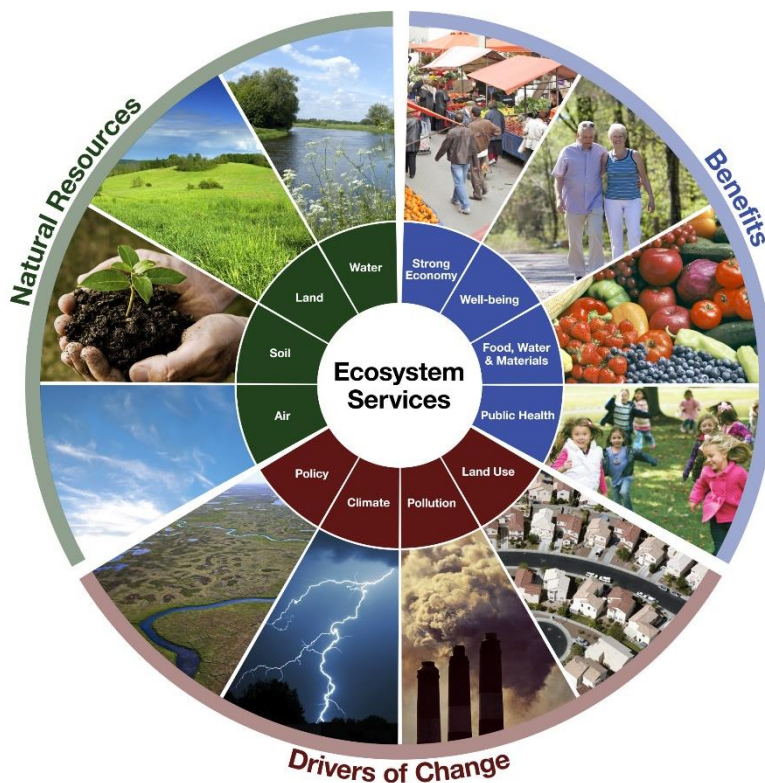
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		<b>Ecosystem Services</b> <small>card 2</small>			Bonus points for details: _____
<b>Find something that...</b> (and fill in what the item is that you saw. Each box must have something filled in to count. Bonus points available for descriptions and/or details of the item.)	<b>B</b>	<b>I</b>	<b>N</b>	<b>G</b>	<b>O</b>
	Can provide food for humans:	Has been found to have associations with healing:	Has economic value (\$): 	Has associations with reductions in respiratory symptoms: 	Promotes engagement with nature:
	Promotes positive human health outcomes (which ones?):	Has associations with reductions in stress/anxiety (how?):	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can positively impact water quality: 	Can be used for shelter for humans:
	Can be used for raw materials:	Can be like a filter:	<b>FREE SPACE</b>	Can help to filter pollutants that may affect water quality:	Can inspire art:
	Can inspire writing:	Can positively impact air quality:	Can provide recreation: 	Can provide habitats for species (extra points for naming a species!):	Can reduce effects of flooding:
Can be used as a source of energy:	Can reduce carbon dioxide in the atmosphere:	Can reduce effects of hot days:	Can promote social interaction: 	Can promote physical activity:	





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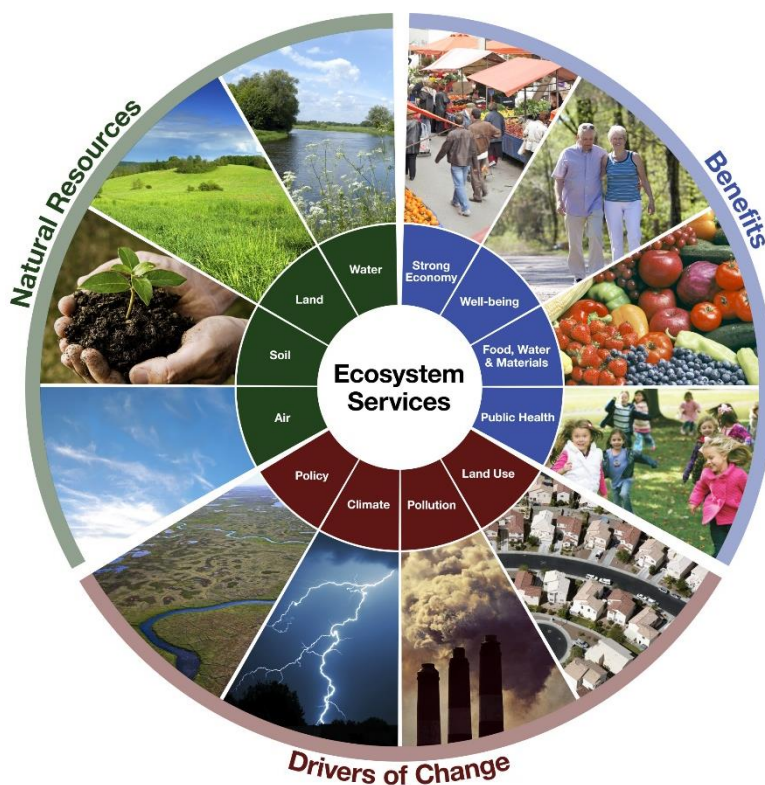
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<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can be like a filter:	Can provide recreation: 	Promotes engagement with nature:	Can inspire writing:	Can positively impact water quality: 
	Can provide habitats for species (extra points for naming a species!):	Can reduce effects of flooding:	Can inspire art:	Can provide food for humans:	Has associations with reductions in stress/anxiety (how?):
	Can help to filter pollutants that may affect water quality:	Has been found to have associations with healing:	<b>FREE SPACE</b>	Has economic value (\$): 	Promotes positive human health outcomes (which ones?):
	Can promote physical activity:	Has associations with reductions in respiratory symptoms: 	Can reduce carbon dioxide in the atmosphere:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can reduce effects of hot days:
	Can positively impact air quality:	Can be used for raw materials:	Can be used for shelter for humans:	Can be used as a source of energy:	Can promote social interaction: 



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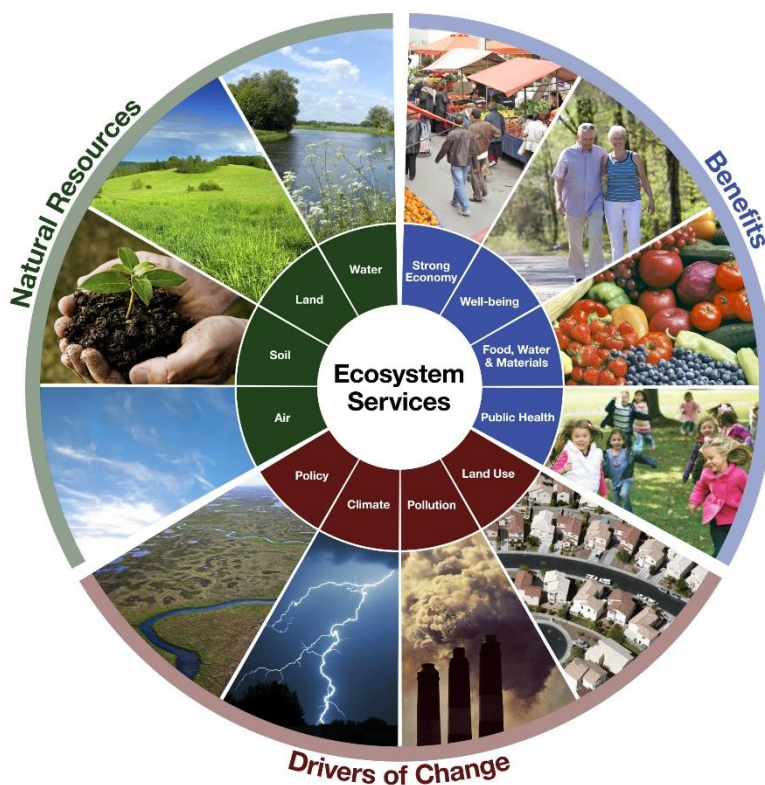
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<b>Find something that...</b> (and fill in what the item is that you saw. Each box must have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can inspire writing:	Can promote social interaction: 	Has economic value (\$): 	Can reduce effects of flooding:	Has associations with reductions in stress/anxiety (how?):
	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can positively impact water quality: 	Can be used as a source of energy:	Can inspire art:	Can reduce effects of hot days:
	Has been found to have associations with healing:	Can reduce carbon dioxide in the atmosphere:	<b>FREE SPACE</b>	Can provide food for humans:	Can help to filter pollutants that may affect water quality:
	Can provide habitats for species (extra points for naming a species!):	Can promote physical activity:	Promotes positive human health outcomes (which ones?):	Promotes engagement with nature:	Can provide recreation: 
	Can be like a filter (how?):	Can be used for shelter for humans:	Can positively impact air quality:	Can be used for raw materials:	Has associations with reductions in respiratory symptoms: 





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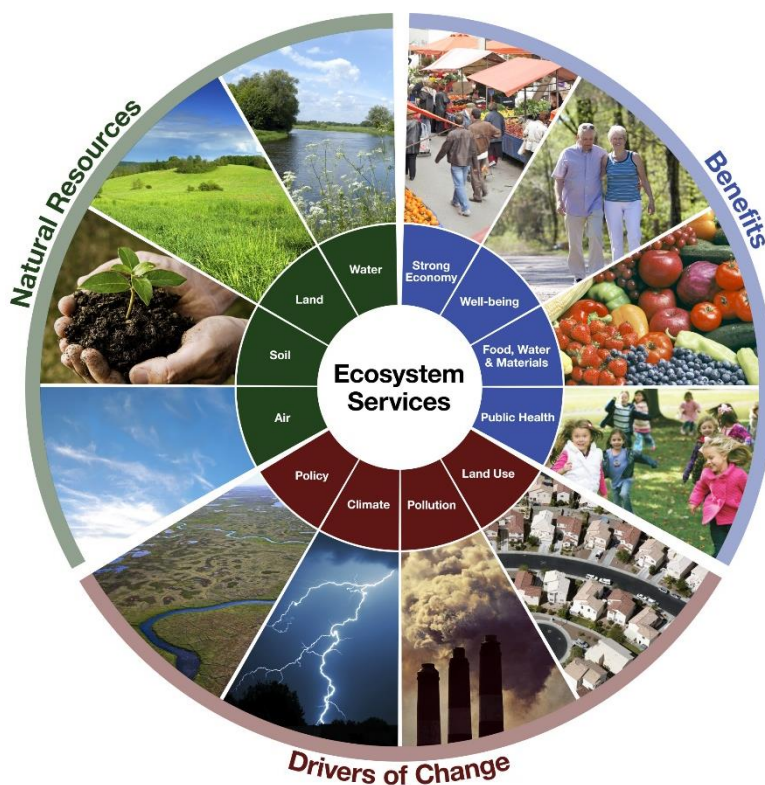
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<b>Find something that...</b> (and fill in what the item is that you saw. Each box must have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Has associations with reductions in stress/anxiety (how?):	Has been found to have associations with healing:	Can be used for shelter for humans:	Can provide food for humans:	Can inspire art:
	Can promote social interaction: 	Can positively impact air quality:	Can reduce carbon dioxide in the atmosphere:	Can reduce effects of hot days:	Promotes positive human health outcomes (which ones?):
	Can inspire writing:	Has associations with reductions in respiratory symptoms: 	<b>FREE SPACE</b>	Can positively impact water quality: 	Can help to filter pollutants that may affect water quality:
	Can be used for raw materials:	Promotes engagement with nature:		Can provide recreation: 	Can promote physical activity:
	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can be used as a source of energy:	Can be like a filter (how?):	Has economic value (\$): 	Can provide habitats for species (extra points for naming a species!):



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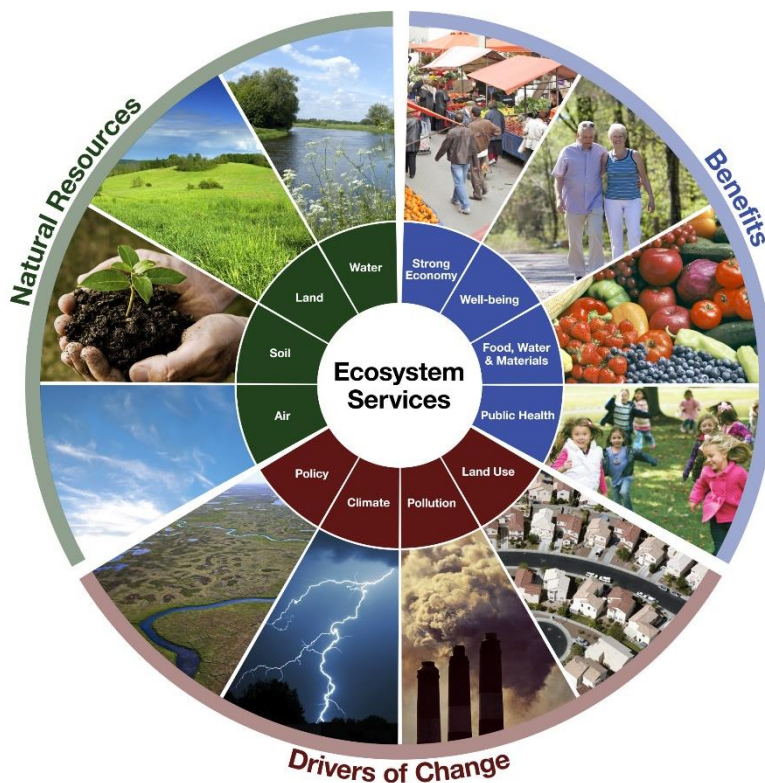
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<b>Find something that...</b> (and fill in what the item is that you saw. Each box must have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
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	Can provide habitats for species (extra points for naming a species!):	Can promote social interaction: 	Can inspire art:	Has economic value (\$): 	Can positively impact water quality: 
	Promotes engagement with nature:	Can be used for shelter for humans:	<b>FREE SPACE</b>	Can provide food for humans:	Can be used as a source of energy:
	Can reduce carbon dioxide in the atmosphere:	Can inspire writing:	Has associations with reductions in stress/anxiety (how?):	Can reduce effects of hot days:	Can positively impact air quality:
	Has associations with reductions in respiratory symptoms: 	Can provide habitats to pollinators (extra points for naming a pollinator!):	Promotes positive human health outcomes (which ones?):	Can promote physical activity:	Can provide recreation: 



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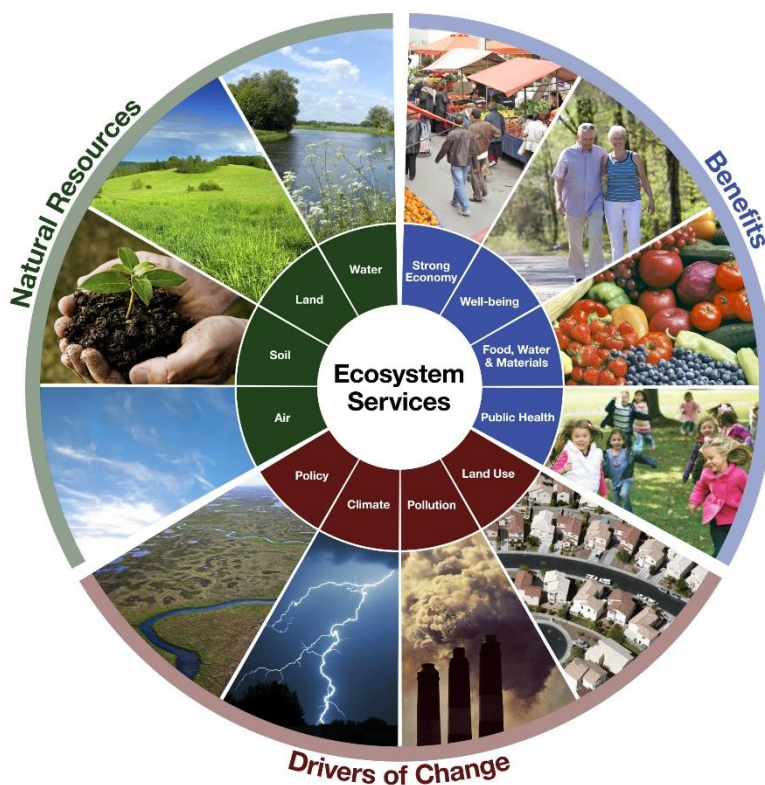
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	Can provide food for humans:	Can reduce effects of flooding:	Can reduce carbon dioxide in the atmosphere:	Can reduce effects of hot days:	Can provide recreation: 
	Can be used as a source of energy:	Can positively impact water quality: 	Has associations with reductions in respiratory symptoms: 	Has been found to have associations with healing:	Can inspire art:
	Promotes positive human health outcomes (which ones?):	Can positively impact air quality:	<b>FREE SPACE</b>	Can be used for shelter for humans:	Has associations with reductions in stress/anxiety (how?):
	Can inspire writing:	Can promote social interaction: 	Can help to filter pollutants that may affect water quality:	Can promote physical activity:	Can provide aesthetic value:
	Promotes engagement with nature:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can provide food for humans:	Has economic value (\$): 	Can be used for raw materials:





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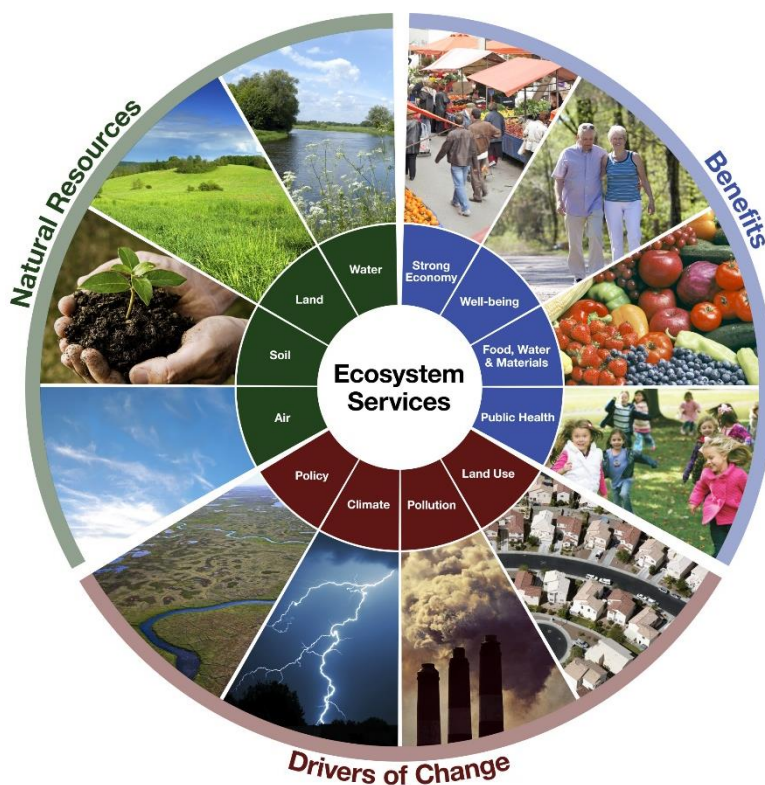
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<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can be used for raw materials:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can provide recreation: 	Has associations with reductions in respiratory symptoms: 	Can provide aesthetic value:
	Can provide food for humans:	Has economic value (\$): 	Can promote physical activity:	Can inspire writing:	Can be used for shelter for humans:
	Promotes positive human health outcomes (which ones?):	Can be used as a source of energy:	<b>FREE SPACE</b>	Can positively impact water quality: 	Can provide habitats for species (extra points for naming a species!):
	Promotes engagement with nature:	Can promote social interaction: 	Can positively impact air quality:	Can reduce effects of hot days:	Has been found to have associations with healing:
	Can reduce effects of flooding:	Can inspire art:	Can help to filter pollutants that may affect water quality:	Can reduce carbon dioxide in the atmosphere:	Has associations with reductions in stress/anxiety (how?):



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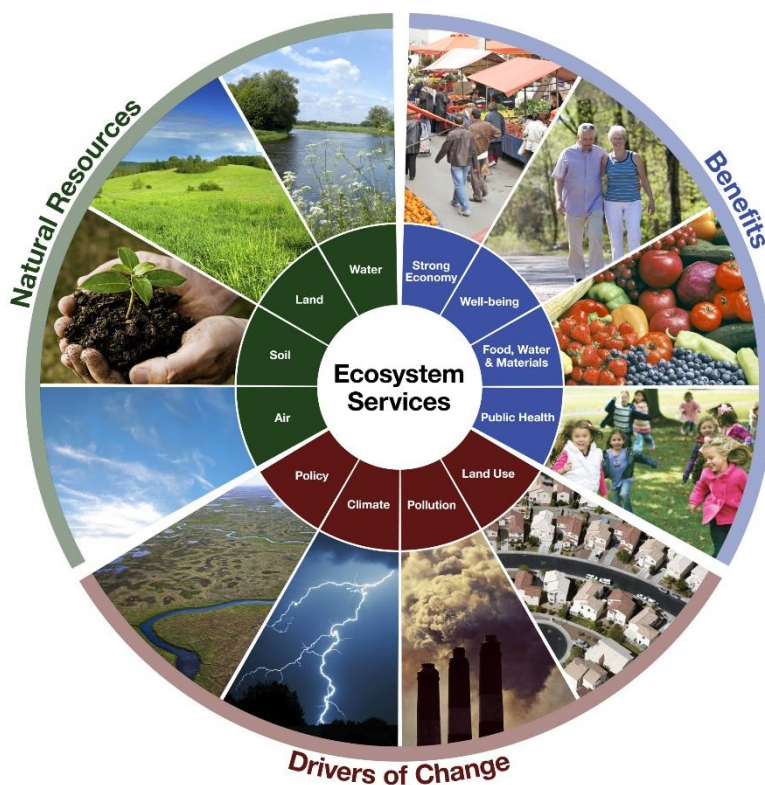
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	Can help to filter pollutants that may affect water quality: 	Has associations with reductions in respiratory symptoms:	Can inspire art:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can provide aesthetic value:
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	Can reduce effects of flooding:	Can reduce carbon dioxide in the atmosphere:		Can be used for recreation: 	Has associations with reductions in stress/anxiety (how?):
	Can provide food for humans:	Can inspire writing:	Promotes positive human health outcomes (which ones?):	Has economic value (\$): 	Can be used for shelter for humans:



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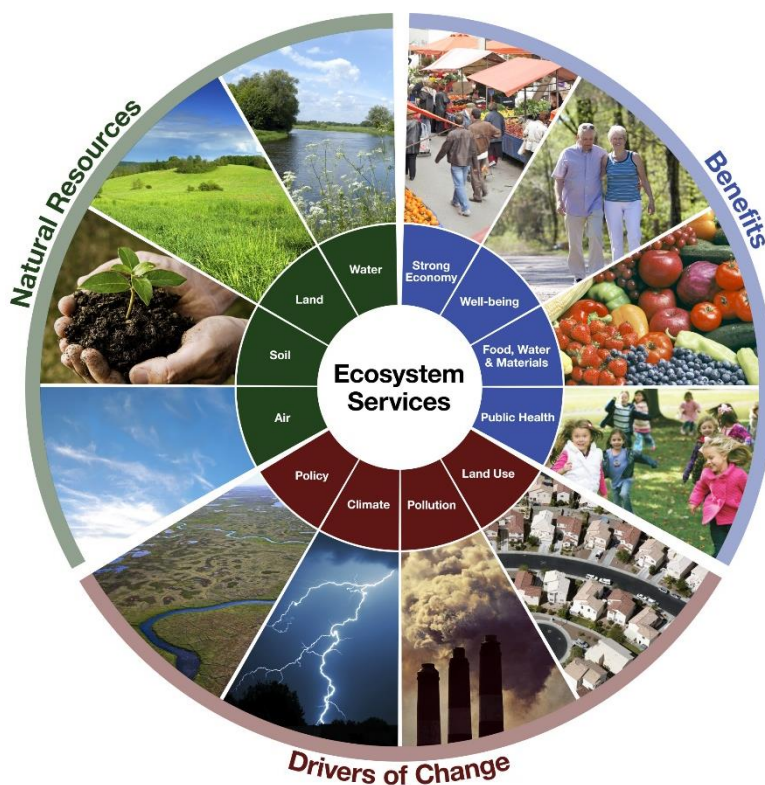
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h1 style="margin: 0;">Ecosystem Services</h1> <p style="margin: 0;">card 10</p> </div> <div style="border: 1px solid black; padding: 5px;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can promote social interaction: 	Can help to filter pollutants that may affect water quality:	Can provide aesthetic value:	Promotes engagement with nature:	Can positively impact air quality:
	Can provide habitats to pollinators (extra points for naming a pollinator!):	Has associations with reductions in respiratory symptoms: 	Can be used for raw materials:	Can reduce effects of hot days:	Can provide recreation: 
	Has been found to have associations with healing:	Can positively impact water quality: 	<b>FREE SPACE</b>	Can promote physical activity:	Can provide habitats for species (extra points for naming a species!):
	Can be used as a source of energy:	Can reduce carbon dioxide in the atmosphere:	Can inspire art:	Can provide food for humans:	Can be used for shelter for humans:
	Has economic value (\$): 	Can reduce effects of flooding:	Has associations with reductions in stress/anxiety (how?):	Can inspire writing:	Promotes positive human health outcomes (which ones?):



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## Ecosystem Services BINGO!

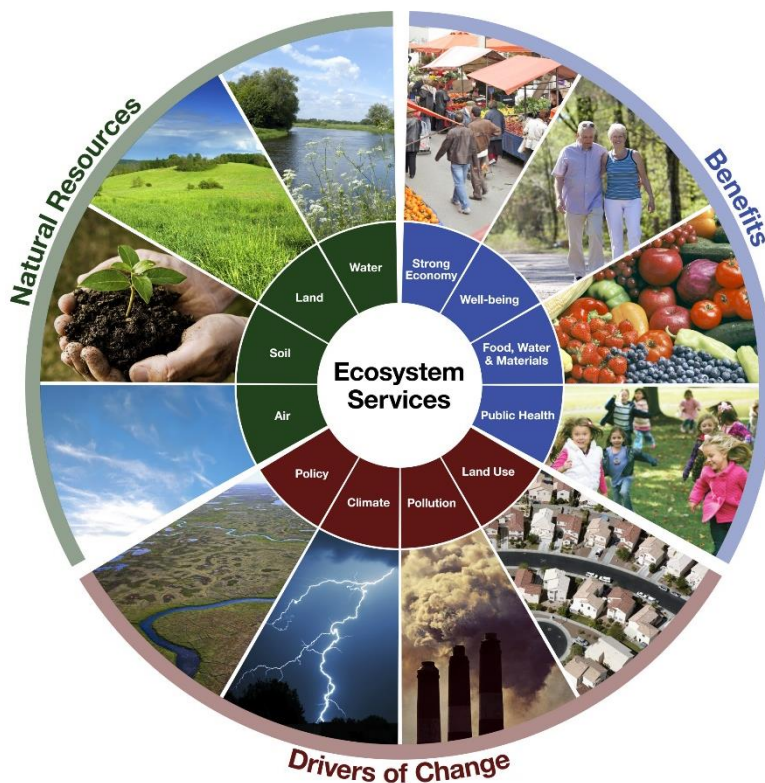
As you spend some time outside with your class, fill in the BINGO card on the back of this page.

Name(s): \_\_\_\_\_ Date: \_\_\_\_\_

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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h1 style="margin: 0;">Ecosystem Services</h1> <p style="margin: 0;">card 1</p> </div> <div style="border: 1px solid black; padding: 5px;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	<b>B</b>	<b>I</b>	<b>N</b>	<b>G</b>	<b>O</b>
	Can positively impact air quality:	Can promote social interaction:	Can positively impact water quality:	Can be like a filter (how?):	Can be used for shelter for humans:
	Has economic value (\$):	Can provide recreation:	Can be used for raw materials:	Can reduce effects of flooding:	Can reduce effects of hot days:
	Can promote physical activity:	Promotes engagement with nature:	<b>FREE SPACE</b>	Can be used as a source of energy:	Can provide food for humans:
	Promotes positive human health outcomes (which ones?):	Can inspire art:	Has associations with reductions in respiratory symptoms:	Has associations with reductions in stress/anxiety (how?):	Can inspire writing:
	Can provide habitats for species (extra points for naming a species!):	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can help to filter pollutants that may affect water quality:	Has been found to have associations with healing:	Can reduce carbon dioxide in the atmosphere:



These materials are all part of  
EPA Report #: EPA/600/R-18/231.

APPENDIX, Lesson #1: Ecosystem Services BINGO!  
Student Handouts, without images



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## Ecosystem Services BINGO!

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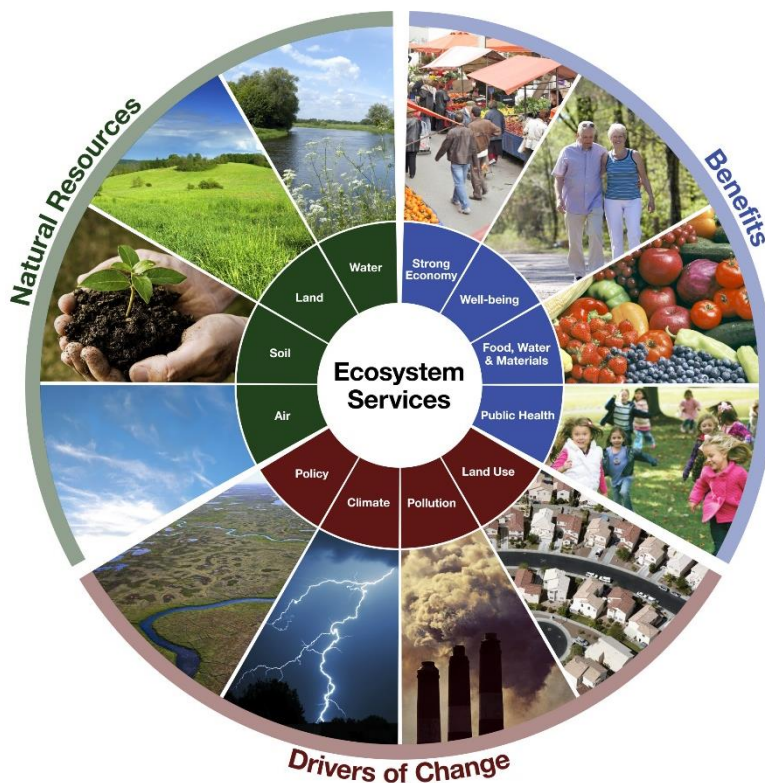
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h2 style="margin: 0;">Ecosystem Services</h2> <p style="margin: 0; font-size: small;">card 2</p> </div> <div style="border: 1px solid black; padding: 2px; font-size: small;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box must have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can provide food for humans:	Has been found to have associations with healing:	Has economic value (\$):	Has associations with reductions in respiratory symptoms:	Promotes engagement with nature:
	Promotes positive human health outcomes (which ones?):	Has associations with reductions in stress/anxiety (how?):	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can positively impact water quality:	Can be used for shelter for humans:
	Can be used for raw materials:	Can be like a filter:	<b>FREE SPACE</b>	Can help to filter pollutants that may affect water quality:	Can inspire art:
	Can inspire writing:	Can positively impact air quality:	Can provide recreation:	Can provide habitats for species (extra points for naming a species!):	Can reduce effects of flooding:
	Can be used as a source of energy:	Can reduce carbon dioxide in the atmosphere:	Can reduce effects of hot days:	Can promote social interaction:	Can promote physical activity:

These materials are all part of  
EPA Report #: EPA/600/R-18/231.



## Ecosystem Services BINGO!

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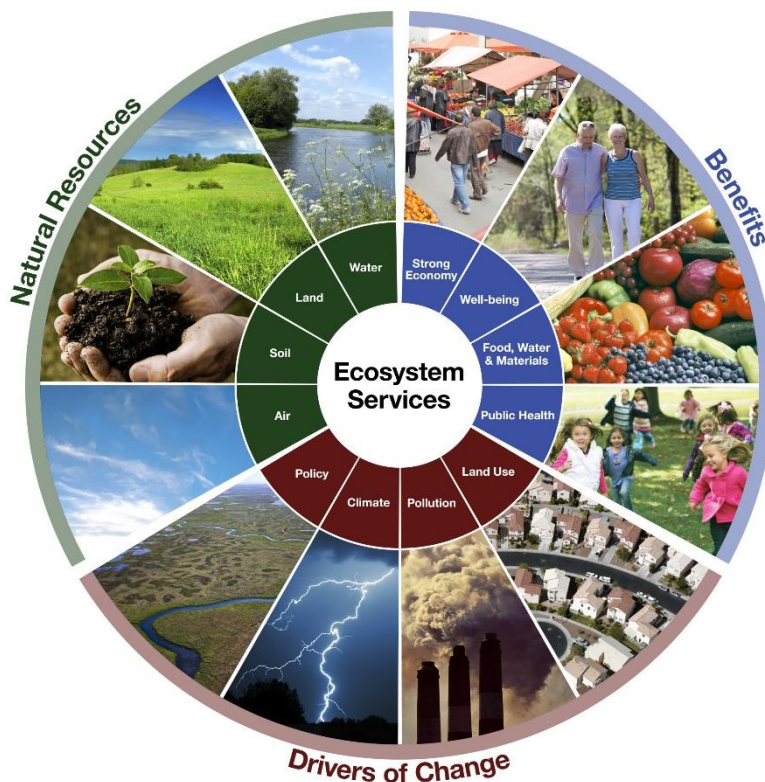
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h2 style="margin: 0;">Ecosystem Services</h2> <p style="margin: 0; font-size: small;">card 3</p> </div> <div style="border: 1px solid black; padding: 2px; font-size: small;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	<b>B</b>	<b>I</b>	<b>N</b>	<b>G</b>	<b>O</b>
	Can be like a filter:	Can provide recreation:	Promotes engagement with nature:	Can inspire writing:	Can positively impact water quality:
	Can provide habitats for species (extra points for naming a species!):	Can reduce effects of flooding:	Can inspire art:	Can provide food for humans:	Has associations with reductions in stress/anxiety (how?):
	Can help to filter pollutants that may affect water quality:	Has been found to have associations with healing:	FREE SPACE	Has economic value (\$):	Promotes positive human health outcomes (which ones?):
	Can promote physical activity:	Has associations with reductions in respiratory symptoms:	Can reduce carbon dioxide in the atmosphere:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can reduce effects of hot days:
	Can positively impact air quality:	Can be used for raw materials:	Can be used for shelter for humans:	Can be used as a source of energy:	Can promote social interaction:





## Ecosystem Services BINGO!

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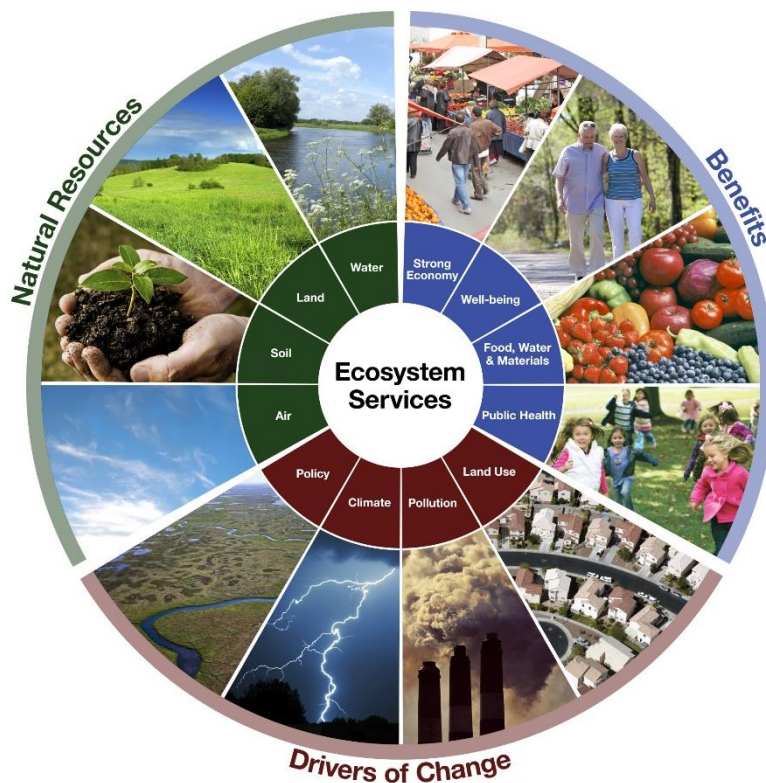
Name(s): \_\_\_\_\_ Date: \_\_\_\_\_

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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h2 style="margin: 0;">Ecosystem Services</h2> <p style="margin: 0; font-size: small;">card 4</p> </div> <div style="border: 1px solid black; padding: 5px; font-size: small;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box must have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can inspire writing:	Can promote social interaction:	Has economic value (\$):	Can reduce effects of flooding:	Has associations with reductions in stress/anxiety (how?):
	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can positively impact water quality:	Can be used as a source of energy:	Can inspire art:	Can reduce effects of hot days:
	Has been found to have associations with healing:	Can reduce carbon dioxide in the atmosphere:	<b>FREE SPACE</b>	Can provide food for humans:	Can help to filter pollutants that may affect water quality:
	Can provide habitats for species (extra points for naming a species!):	Can promote physical activity:	Promotes positive human health outcomes (which ones?):	Promotes engagement with nature:	Can provide recreation:
	Can be like a filter (how?):	Can be used for shelter for humans:	Can positively impact air quality:	Can be used for raw materials:	Has associations with reductions in respiratory symptoms:



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## Ecosystem Services BINGO!

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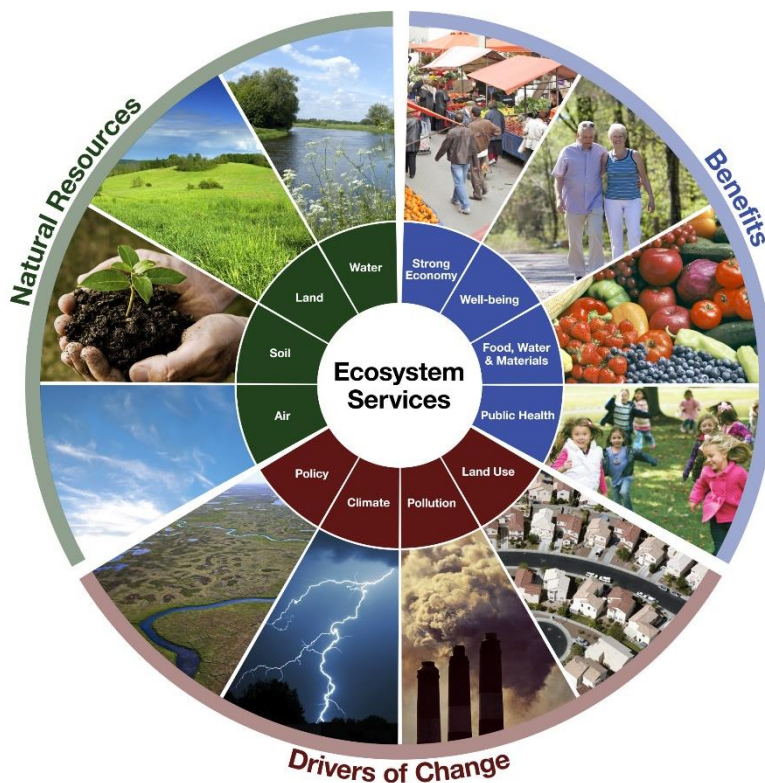
Name(s): \_\_\_\_\_ Date: \_\_\_\_\_

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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h2 style="margin: 0;">Ecosystem Services</h2> <p style="margin: 0; font-size: small;">card 5</p> </div> <div style="border: 1px solid black; padding: 5px; font-size: small;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Has associations with reductions in stress/anxiety (how?):	Has been found to have associations with healing:	Can be used for shelter for humans:	Can provide food for humans:	Can inspire art:
	Can promote social interaction:	Can positively impact air quality:	Can reduce carbon dioxide in the atmosphere:	Can reduce effects of hot days:	Promotes positive human health outcomes (which ones?):
	Can inspire writing:	Has associations with reductions in respiratory symptoms:	<b>FREE SPACE</b>	Can positively impact water quality:	Can help to filter pollutants that may affect water quality:
	Can be used for raw materials:	Promotes engagement with nature:	Can provide recreation:	Can promote physical activity:	Can reduce effects of flooding:
	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can be used as a source of energy:	Has associations with increases in asthma and respiratory symptoms:	Has economic value (\$):	Can provide habitats for species (extra points for naming a species!):





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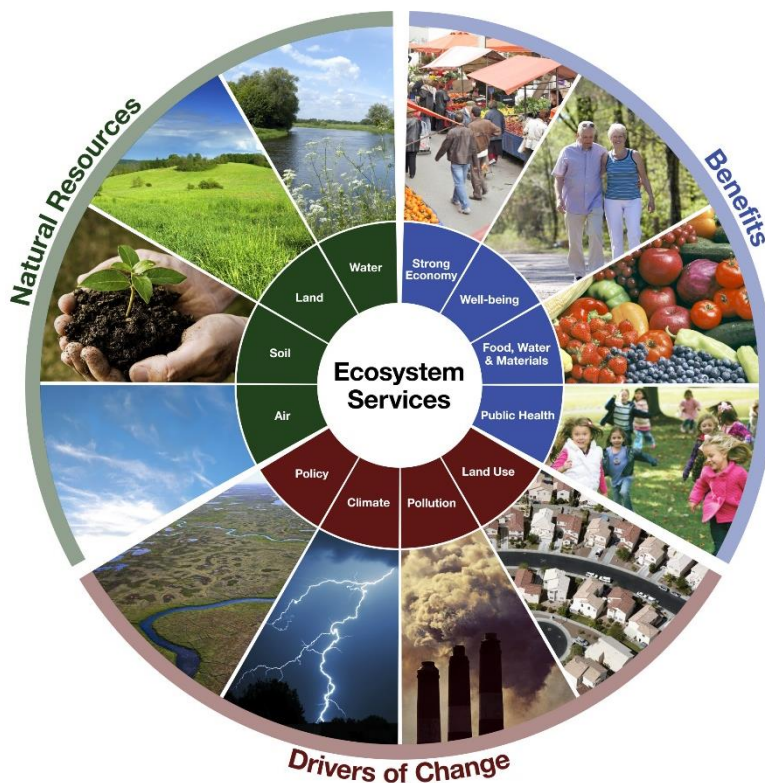
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h2 style="margin: 0;">Ecosystem Services</h2> <p style="margin: 0; font-size: small;">card 6</p> </div> <div style="border: 1px solid black; padding: 5px; font-size: small;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box must have something filled in to count. Bonus points available for descriptions and/or details of the item.)	<b>B</b>	<b>I</b>	<b>N</b>	<b>G</b>	<b>O</b>
	Can be used for raw materials:	Can help to filter pollutants that may affect water quality:	Can be like a filter:	Has been found to have associations with healing:	Can reduce effects of flooding:
	Can provide habitats for species (extra points for naming a species!):	Can promote social interaction:	Can inspire art:	Has economic value (\$):	Can positively impact water quality:
	Promotes engagement with nature:	Can be used for shelter for humans:	<b>FREE SPACE</b>	Can provide food for humans:	Can be used as a source of energy:
	Can reduce carbon dioxide in the atmosphere:	Can inspire writing:	Has associations with reductions in stress/anxiety (how?):	Can reduce effects of hot days:	Can positively impact air quality:
	Has associations with reductions in respiratory symptoms:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Promotes positive human health outcomes (which ones?):	Can promote physical activity:	Can provide recreation:



## Ecosystem Services BINGO!

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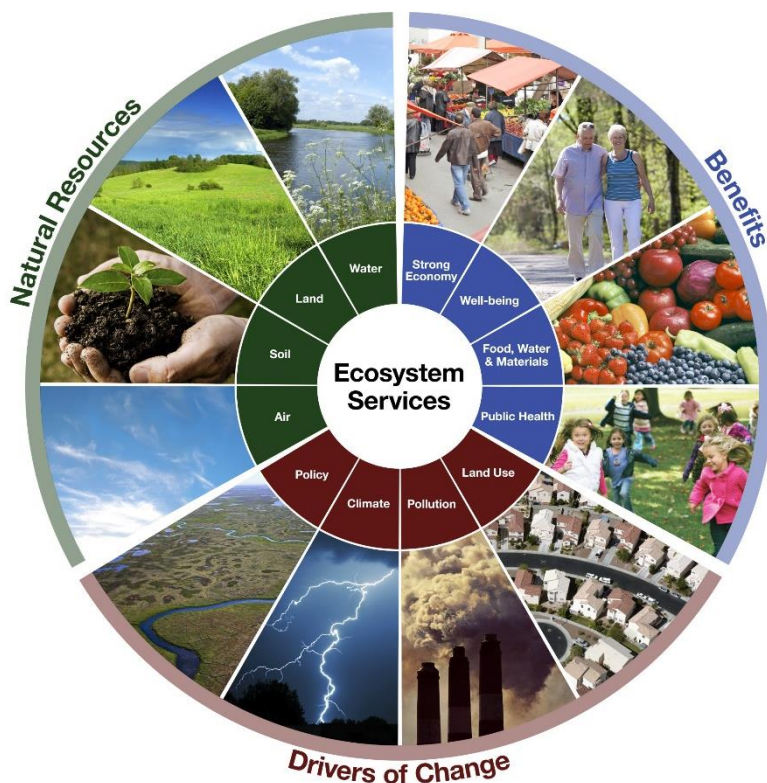
Name(s): \_\_\_\_\_ Date: \_\_\_\_\_

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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h1 style="margin: 0;">Ecosystem Services</h1> <p style="margin: 0; font-size: small;">card 7</p> </div> <div style="border: 1px solid black; padding: 5px; font-size: small;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can provide food for humans:	Can reduce effects of flooding:	Can reduce carbon dioxide in the atmosphere:	Can reduce effects of hot days:	Can provide recreation:
	Can be used as a source of energy:	Can positively impact water quality:	Has associations with reductions in respiratory symptoms:	Has been found to have associations with healing:	Can inspire art:
	Promotes positive human health outcomes (which ones?):	Can positively impact air quality:	<b>FREE SPACE</b>	Can be used for shelter for humans:	Has associations with reductions in stress/anxiety (how?):
	Can inspire writing:	Can promote social interaction:	Can help to filter pollutants that may affect water quality:	Can promote physical activity:	Can provide aesthetic value:
	Promotes engagement with nature:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can provide food for humans:	Has economic value (\$):	Can be used for raw materials:





## Ecosystem Services BINGO!

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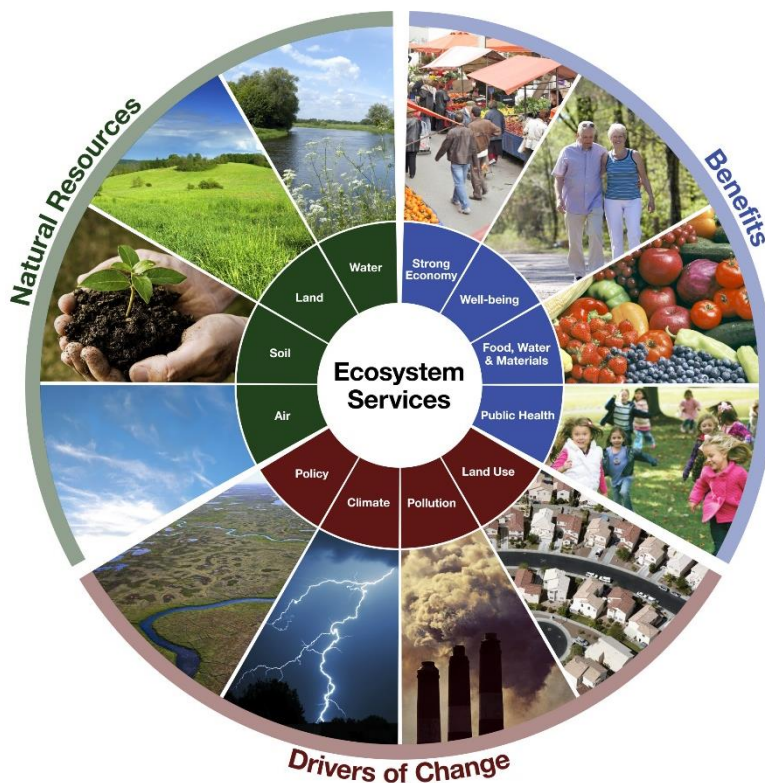
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h1 style="margin: 0;">Ecosystem Services</h1> <p style="margin: 0;">card 8</p> </div> <div style="border: 1px solid black; padding: 5px;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can be used for raw materials:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can provide recreation:	Has associations with reductions in respiratory symptoms:	Can provide aesthetic value:
	Can provide food for humans:	Has economic value (\$):	Can promote physical activity:	Can inspire writing:	Can be used for shelter for humans:
	Promotes positive human health outcomes (which ones?):	Can be used as a source of energy:	<b>FREE SPACE</b>	Can positively impact water quality:	Can provide habitats for species (extra points for naming a species!):
	Promotes engagement with nature:	Can promote social interaction:	Can positively impact air quality:	Can reduce effects of hot days:	Has been found to have associations with healing:
	Can reduce effects of flooding:	Can inspire art:	Can help to filter pollutants that may affect water quality:	Can reduce carbon dioxide in the atmosphere:	Has associations with reductions in stress/anxiety (how?):



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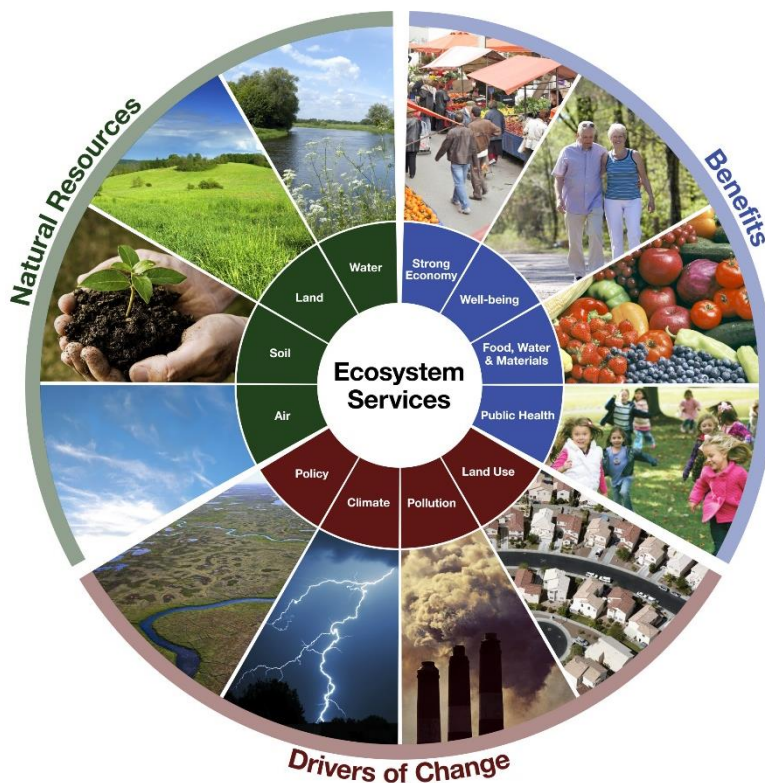
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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h2 style="margin: 0;">Ecosystem Services</h2> <p style="margin: 0; font-size: small;">card 9</p> </div> <div style="border: 1px solid black; padding: 2px; font-size: small;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	<b>B</b>	<b>I</b>	<b>N</b>	<b>G</b>	<b>O</b>
	Promotes engagement with nature:	Can reduce effects of hot days:	Can be used as a source of energy:	Can promote social interaction:	Has been found to have associations with healing:
	Can help to filter pollutants that may affect water quality:	Has associations with reductions in respiratory symptoms:	Can inspire art:	Can provide habitats to pollinators (extra points for naming a pollinator!):	Can provide aesthetic value:
	Can promote physical activity:	Can positively impact water quality:	<b>FREE SPACE</b>	Can positively impact air quality:	Can provide habitats for species (extra points for naming a species!):
	Can reduce effects of flooding:	Can reduce carbon dioxide in the atmosphere:	Can be used for raw materials:	Can provide recreation:	Has associations with reductions in stress/anxiety (how?):
	Can provide food for humans:	Can inspire writing:	Promotes positive human health outcomes (which ones?):	Has economic value (\$):	Can be used for shelter for humans:





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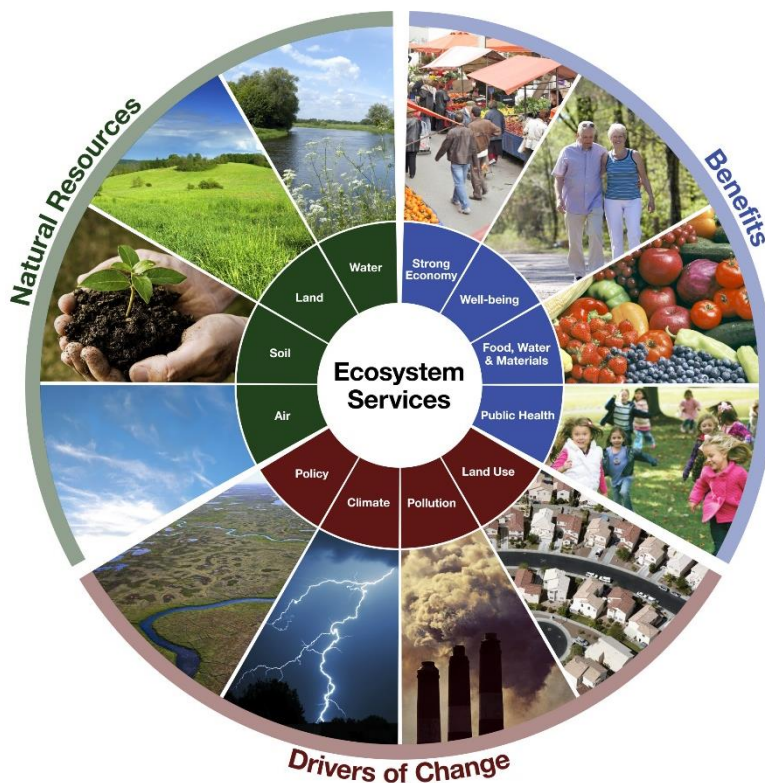
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- Considering ecosystems and their services in our policies and decision-making could help us better manage our resources in a way that would benefit us economically, environmentally, and socially.

To learn more about ecosystem services, check out this website from the U.S. Environmental Protection Agency:

[www.epa.gov/enviroatlas/ecosystem-services-enviroatlas-0](http://www.epa.gov/enviroatlas/ecosystem-services-enviroatlas-0)



<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <h1 style="margin: 0;">Ecosystem Services</h1> <p style="margin: 0; font-size: small;">card 10</p> </div> <div style="border: 1px solid black; padding: 5px; font-size: small;">             Bonus points for details: _____           </div> </div>					
<b>Find something that...</b> (and fill in what the item is that you saw. Each box <b>must</b> have something filled in to count. Bonus points available for descriptions and/or details of the item.)	B	I	N	G	O
	Can promote social interaction:	Can help to filter pollutants that may affect water quality:	Can provide aesthetic value:	Promotes engagement with nature:	Can positively impact air quality:
	Can provide habitats to pollinators (extra points for naming a pollinator!):	Has associations with reductions in respiratory symptoms:	Can be used for raw materials:	Can reduce effects of hot days:	Can provide recreation:
	Has been found to have associations with healing:	Can positively impact water quality:	<b>FREE SPACE</b>	Can promote physical activity:	Can provide habitats for species (extra points for naming a species!):
	Can be used as a source of energy:	Can reduce carbon dioxide in the atmosphere:	Can inspire art:	Can provide food for humans:	Can be used for shelter for humans:
	Has economic value (\$):	Can reduce effects of flooding:	Has associations with reductions in stress/anxiety (how?):	Can inspire writing:	Promotes positive human health outcomes (which ones?):