TREES

Who, What, Where, How?

What's the Difference? Scavenger Hunt

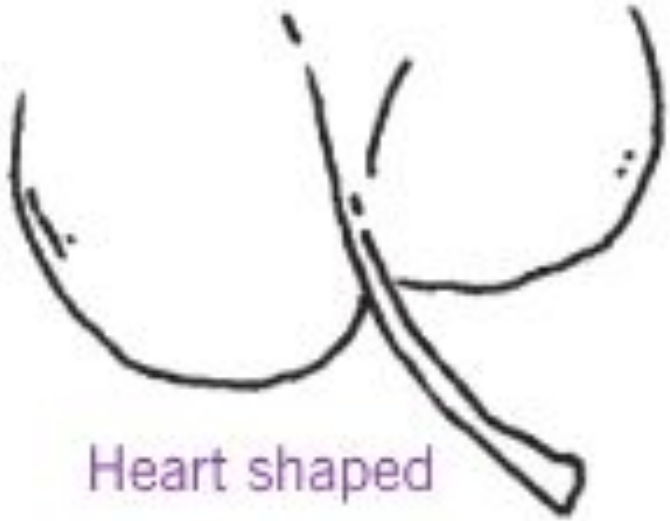
Why do you think that trees have so many differences from each other?

Objectives: Students will begin to build observational data to quantify the biodiversity of the school ecosystem by participating in a tree characteristics scavenger hunt..

Snap a picture of a leaf with the Leaf Base shape shown below. A group member must appear in picture.

Task #1

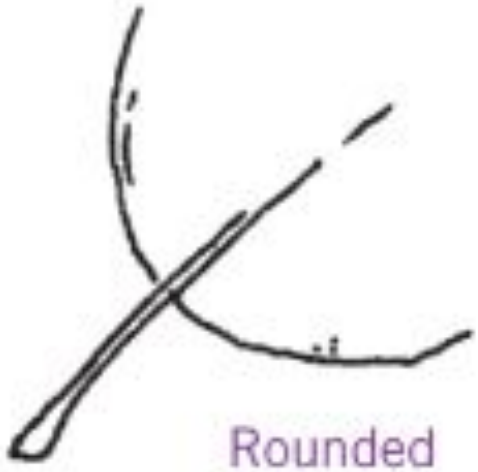
Show your picture to earn your stamp. Then delete it.



Snap a picture of a leaf with the Leaf Base shape shown below. A group member must appear in picture.

Task #2

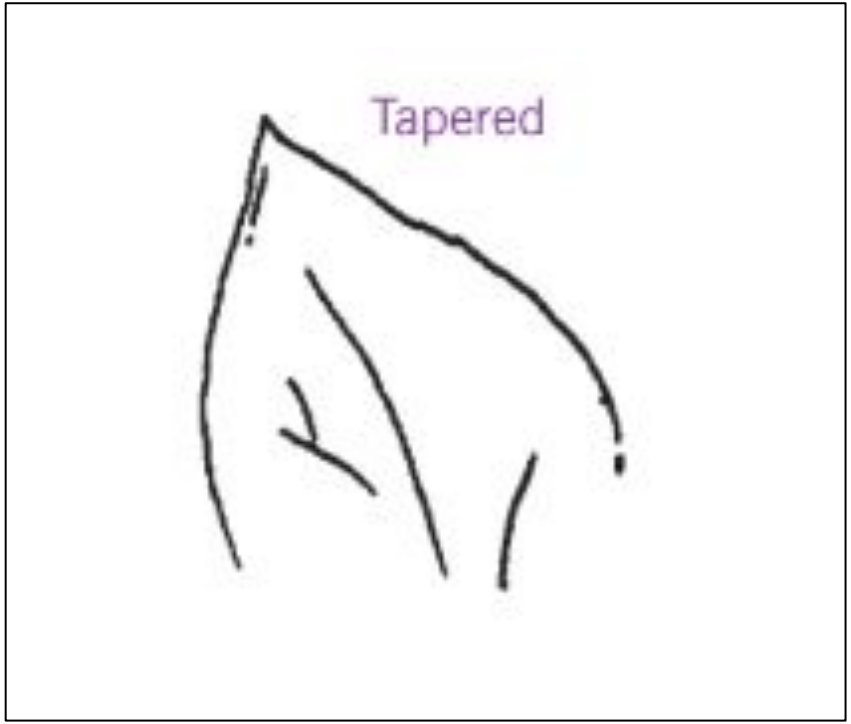
Show your picture to earn your stamp.



Snap a picture of a leaf with the Leaf Tip shape shown below. A group member must appear in picture.

Task #3

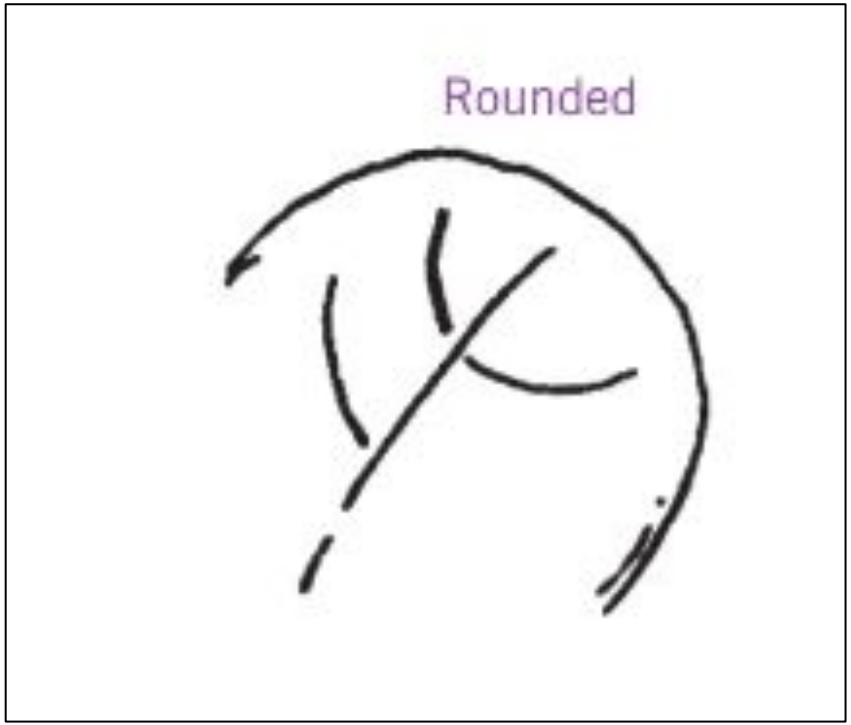
Show your picture to earn your stamp.



Snap a picture of a leaf with the Leaf Tip shape shown below. A group member must appear in picture.

Task #4

Show your picture to earn your stamp.



Snap a picture of a leaf with the Leaf Margin shape shown below. A group member must appear in picture.

Task #5

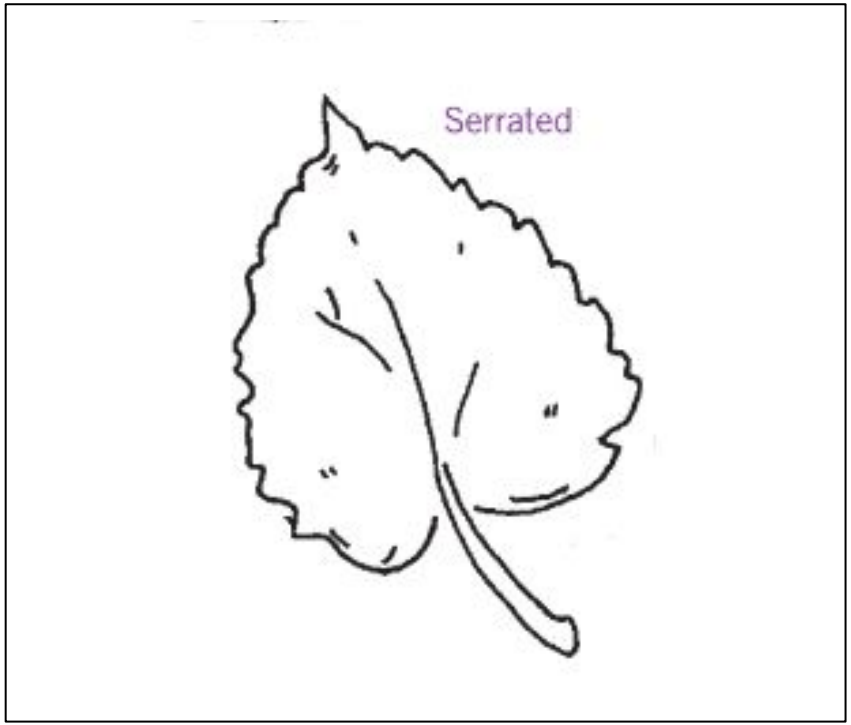
Show your picture to earn your stamp.

Lobed

Snap a picture of a leaf with the Leaf Margin shape shown below. A group member must appear in picture.

Task #6

Show your picture to earn your stamp.



Snap a picture of a tree with the Type of Leaf shown below. A group member must appear in picture.

Task #7

Show your picture to earn your stamp.

Snap a picture of a tree with the Type of Leaf shown below. A group member must appear in picture.

Task #8

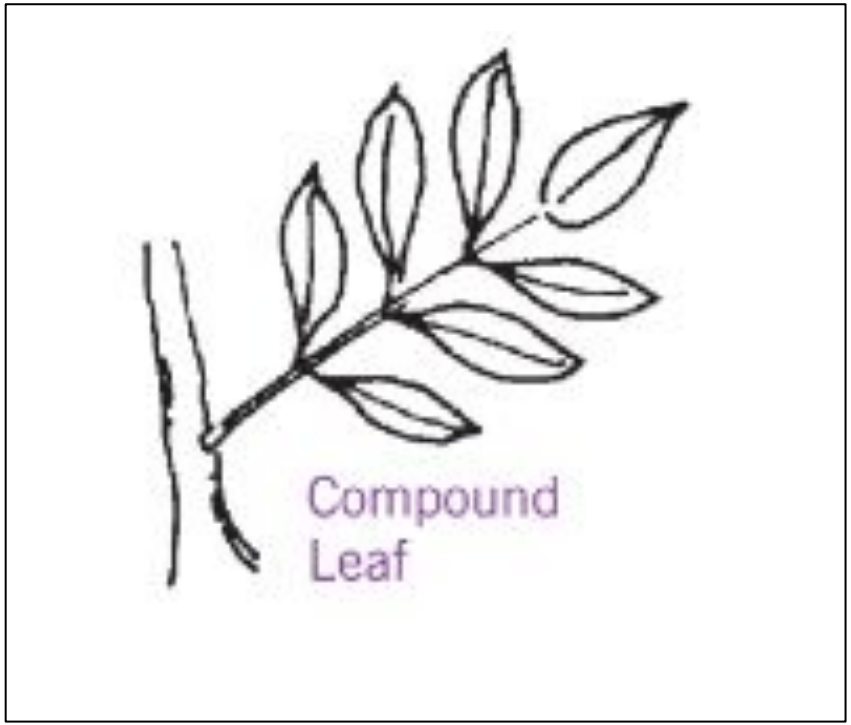
Show your picture to earn your stamp.

Needle-like

Snap a picture of a tree with the Type of Leaf shown below. A group member must appear in picture.

Task #9

Show your picture to earn your stamp.



Snap a picture of a tree with the Type of Leaf shown below. A group member must appear in picture.

Task #10

Show your picture to earn your stamp.

Awl-like

Snap a picture of a tree with the Leaf Arrangement shown below. A group member must appear in picture.

Task #11

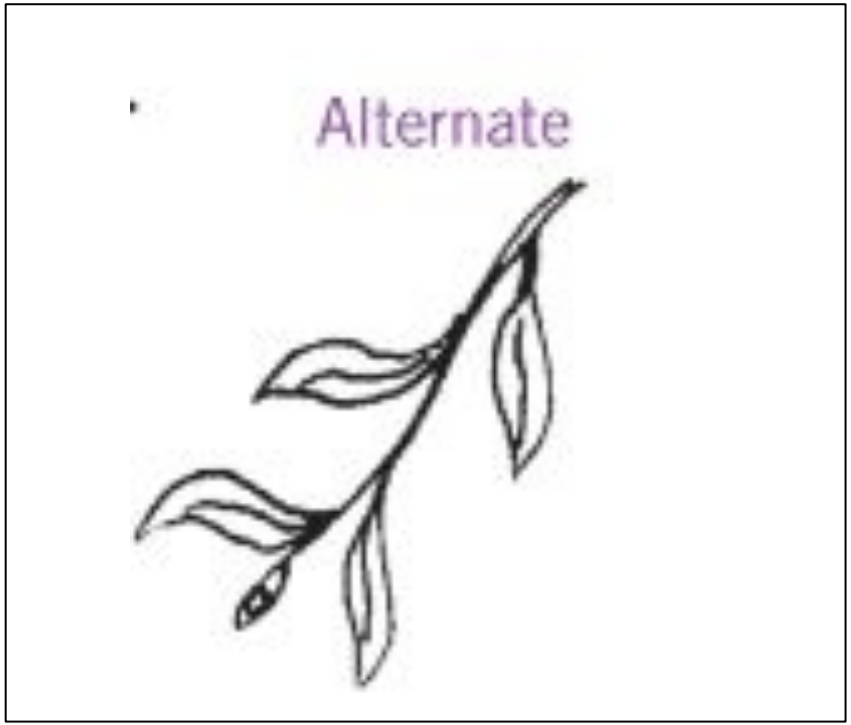
Show your picture to earn your stamp.

Whorls

Snap a picture of a tree with the Leaf Arrangement shown below. A group member must appear in picture.

Task #12

Show your picture to earn your stamp.



Snap a picture of a tree with the Leaf Arrangement shown below. A group member must appear in picture.

Task #13

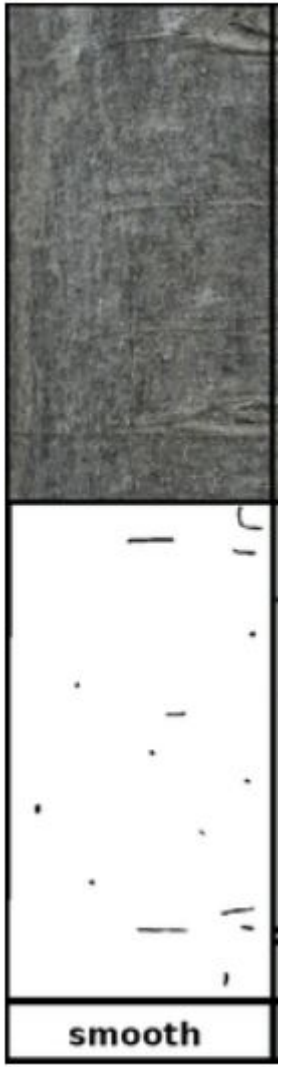
Show your picture to earn your stamp.

Opposite

Snap a picture a tree with the **Trunk Type** shown.
A group member must appear in picture.

Task #14

Show your picture to earn your stamp.



Snap a picture a tree with the Trunk Type shown.
A group member must appear in picture.

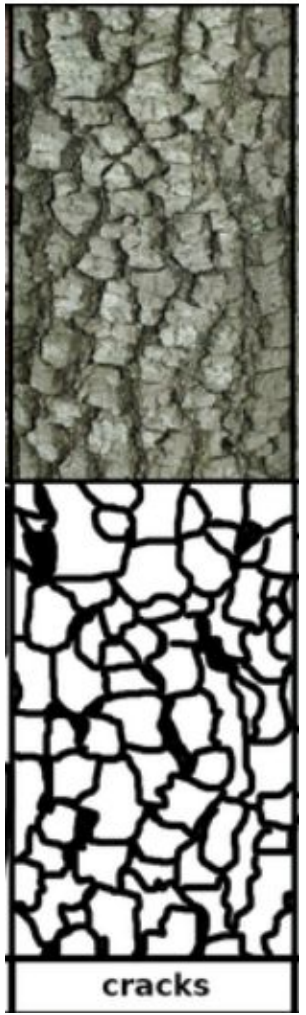
Task #15_

Show your picture to earn your stamp.

Snap a picture a tree with the **Trunk Type** shown.
A group member must appear in picture.

Task #16

Show your picture to earn your stamp.



Snap a picture a tree with the Trunk Type shown.
A group member must appear in picture.

Task #17

Show your picture to earn your stamp.

Flaking

Who Am I?

Objective: Students will use **seek** app to identify the tagged trees working toward being able to quantify the benefits of trees in the school ecosystem using the I-Tree app.

Identify the Tagged Trees in the Schoolyard Ecosystem

1. Use the SEEK app to identify the tagged trees in the schoolyard ecosystem.
2. Record on your Tree Identification worksheet.
3.

Where Am I?

Objective: Students will identify the location of tagged trees working toward being able to quantify the benefits of trees in the school ecosystem using the I-Tree app.

Map the Tagged Trees in the Schoolyard Ecosystem

1. Use Google Earth map to Identify the location of the tagged trees in the schoolyard ecosystem.

vers
3D

How Can I Help?

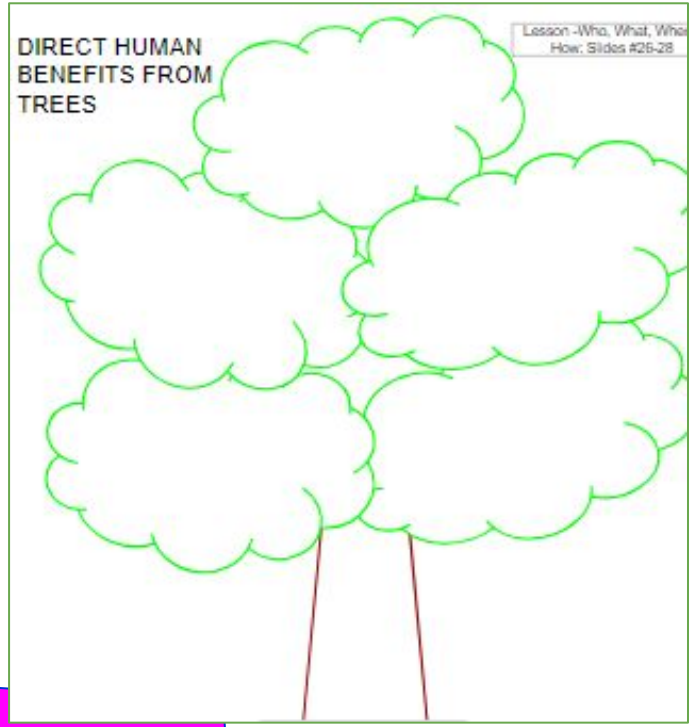
Objective: Students will identify list and describe the benefits of trees in the ecosystem.

Watch

1. Watch the Bill Nye Forest Video at your own pace(use earbuds or turn on the CC).
2. Answer the questions on the Bill Nye Forest Worksheet.
3. Put the worksheet in the TURN IN basket when finished.
4. Continue to slide #28.

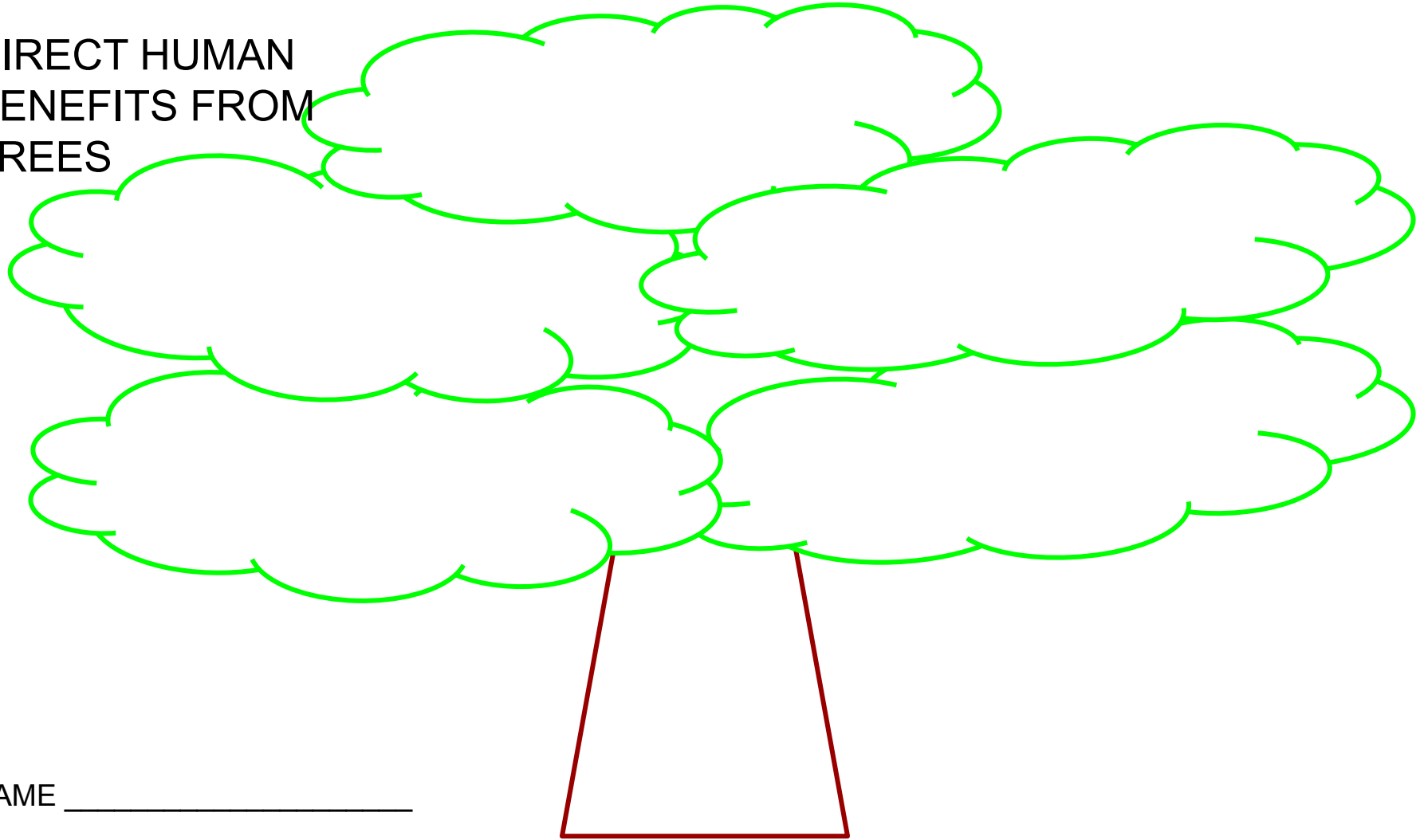
Research the Benefits of Trees

1. Read the first part of the article on Tree Benefits.
2. Complete the Direct Human Benefits From Trees Graphic Organizer by filling in a benefit in each leaf cluster and including a diagram of each.
3. Read the second part of the article on Tree Benefits - Ecosystem Services.
4. Complete the Ecosystem Services From Trees Graphic Organizer by taking notes **how** the trees provide the benefits in each leaf cluster(you do not need a diagram).
5. Put these worksheets in the TURN IN basket when finished.



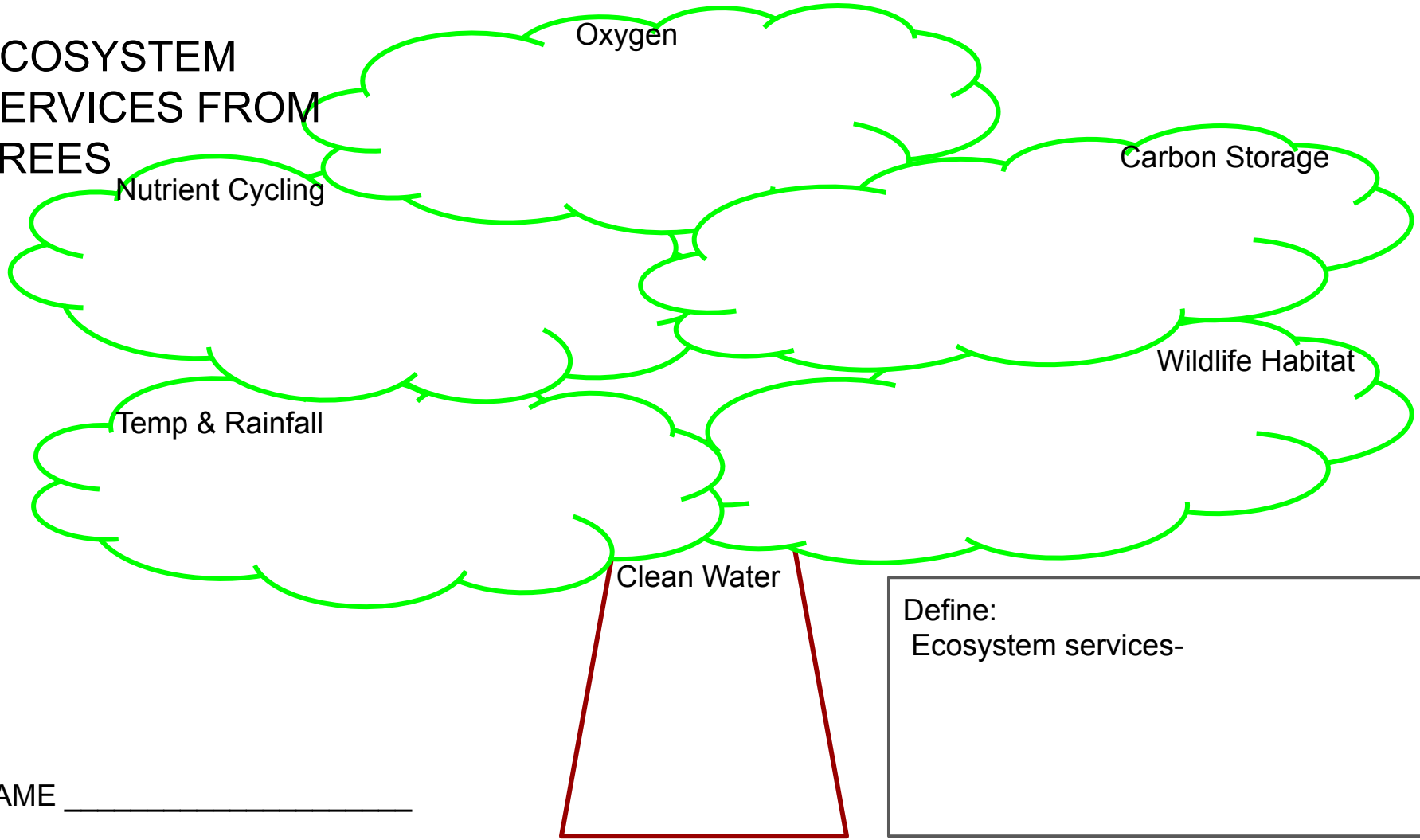
Electronic Students:
Your templates are in your Electronic folder.

DIRECT HUMAN BENEFITS FROM TREES



NAME _____

ECOSYSTEM SERVICES FROM TREES



Define:
Ecosystem services-

NAME _____

How Much Can I Help?

Coming Soon!

Objective: Students will quantify the benefits of trees in the school ecosystem using the I-Tree app.

1.
2.
3.

Tree Characteristics

Leaf Shape

- Base
  - heart shaped
  - round
- Tip:
  - tapered
  - rounded

Leaf Margin

- Serrated
- Lobed
- smooth

Leaf Type

- Simple
- Compound

Leaf Arrangement

- whorl
- alternate
- opposite

Bark

- smooth
- ridges
- cracks
- flakes