

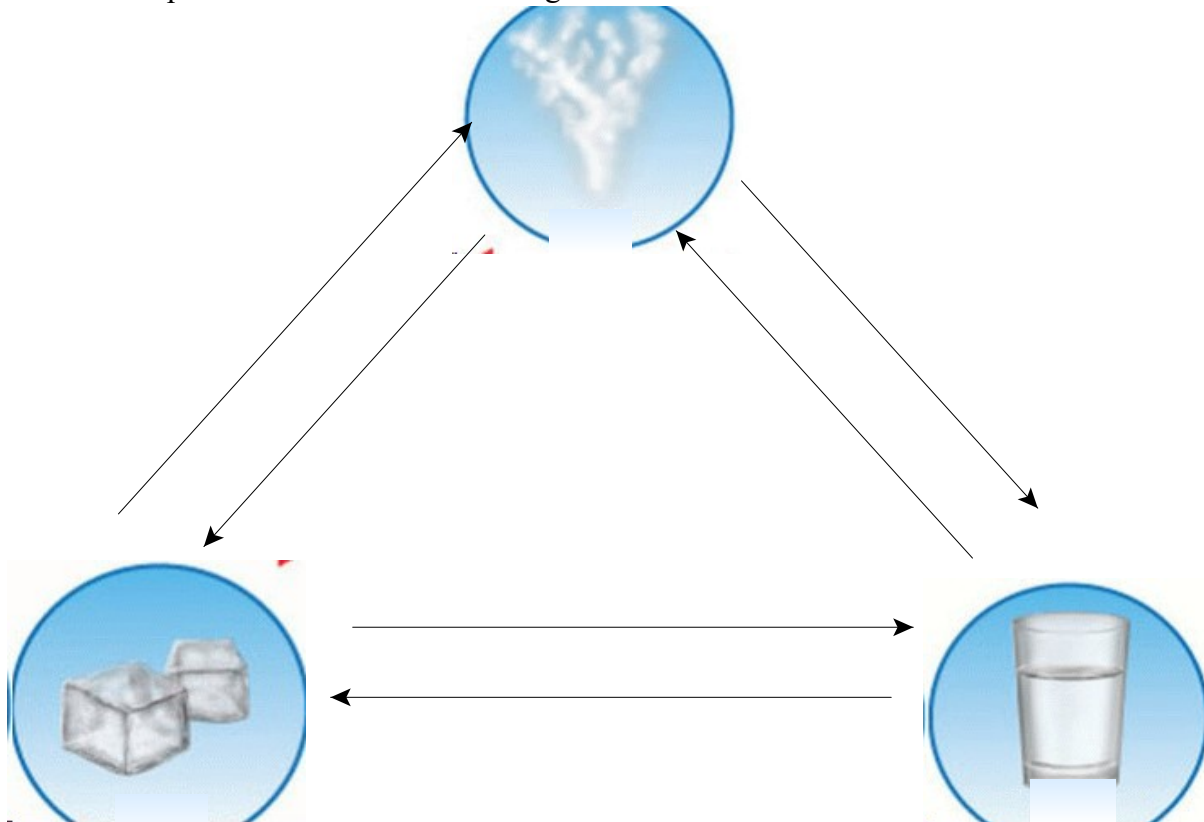
Read the following questions and then watch these YouTube videos (the addresses will also be tweeted out) to find the answers:

- The Hydrologic and Carbon Cycles: Always Recycle! - Crash Course Ecology #8 – <https://youtu.be/2D7hZpIY1CA>
- Nitrogen and Phosphorus Cycles: Always Recycle! Part 2 - Crash Course Ecology #9 – [https://youtu.be/leHy-Y\\_8nRs](https://youtu.be/leHy-Y_8nRs)

(Hank talks fairly quickly; I suggest either turning on the Closed Captioning or following the transcript.) Once you have watched them and taken notes, take the webquiz at <https://goo.gl/forms/XDuSDZpOolmy5g3S2>

### The Hydrologic Cycle

1. What is the hydrologic cycle?
2. What is precipitation? State some examples.
3. Complete the states of matter triangle



4. What is a cloud?

5. Where does most evaporation take place? \_\_\_\_\_

6. Why are wind & clouds important to the water cycle?

7. What is runoff?

8. What happens to water that falls to the ground? (4 things)

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9. How do living organisms contribute to the water cycle? (5 things)

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## The Carbon Cycle

1. Why is carbon important? (3 things)

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2. How do plants contribute to the carbon cycle? (3 things)

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3. State 3 things that can happen to the carbon taken in by plants.

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4. Why are oceans important to the carbon cycle?

5. What are humans doing to change the stability of the carbon cycle?

6. What happens as the Earth gets warmer?

## The Nitrogen cycle

1. How much of the atmosphere is made of nitrogen? \_\_\_\_\_
2. Why is it so hard too use the nitrogen in the atmosphere?
3. What is nitrogen fixation?
4. How do decomposers help the nitrogen cycle?
5. What else can break N<sub>2</sub> apart?
6. Describe the nitrogen cycle.

## The Phosphorous Cycle

1. Where is phosphorus found? \_\_\_\_\_
2. What are lithotrophs? \_\_\_\_\_
3. Describe the phosphorous cycle...  
... on land. ... in the ocean.
4. How do humans affect the nitrogen & phosphorus cycles?