

Name: \_\_\_\_\_

## Energy Flow Guided Notes

Write down two big ideas from the video you watched (<https://youtu.be/0ZOvqYypOuo>)

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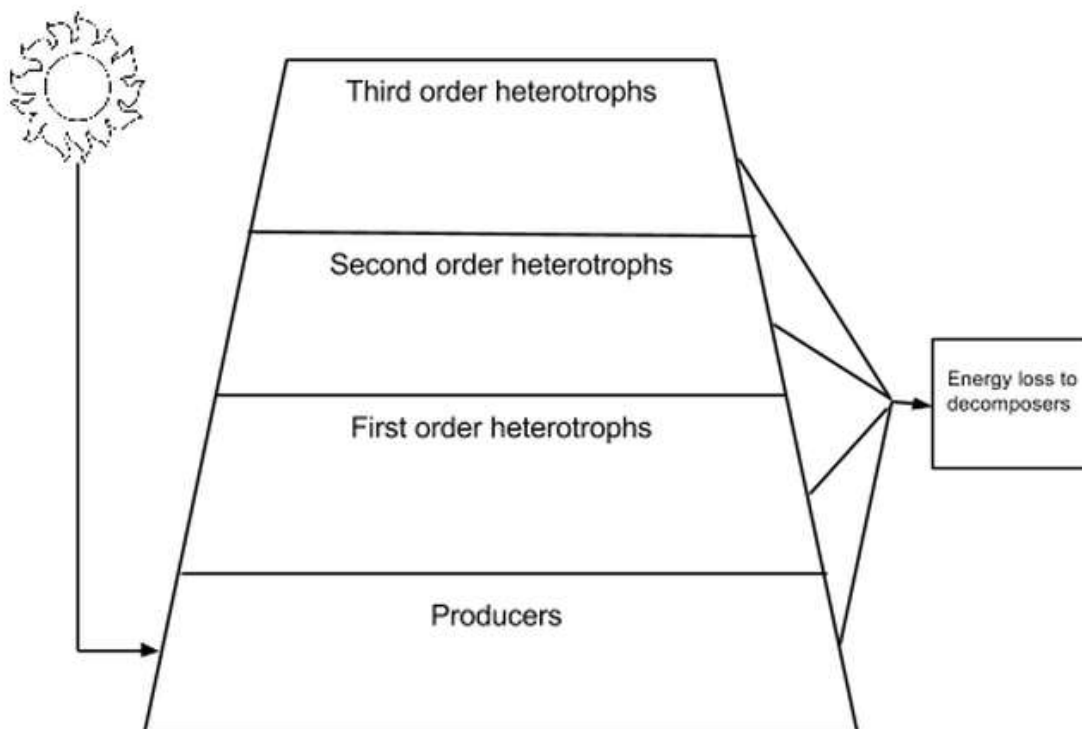
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As you follow along in the presentation, write down your notes:

All energy originates from \_\_\_\_\_.  
The solar energy captured during photosynthesis becomes \_\_\_\_\_ energy. Chemical energy can become \_\_\_\_\_ energy needed for \_\_\_\_\_, \_\_\_\_\_ energy stored in fats or \_\_\_\_\_ energy, which is given off back to the environment.

\_\_\_\_\_ are organisms that feed themselves through photosynthesis. \_\_\_\_\_ get their food by eating others.

Trophic levels are \_\_\_\_\_.  
Write down some examples at each level to help you remember



On average, only about \_\_\_\_\_ of the available energy is passed on from one \_\_\_\_\_ level to the next.

Why is so little of the energy passed on?

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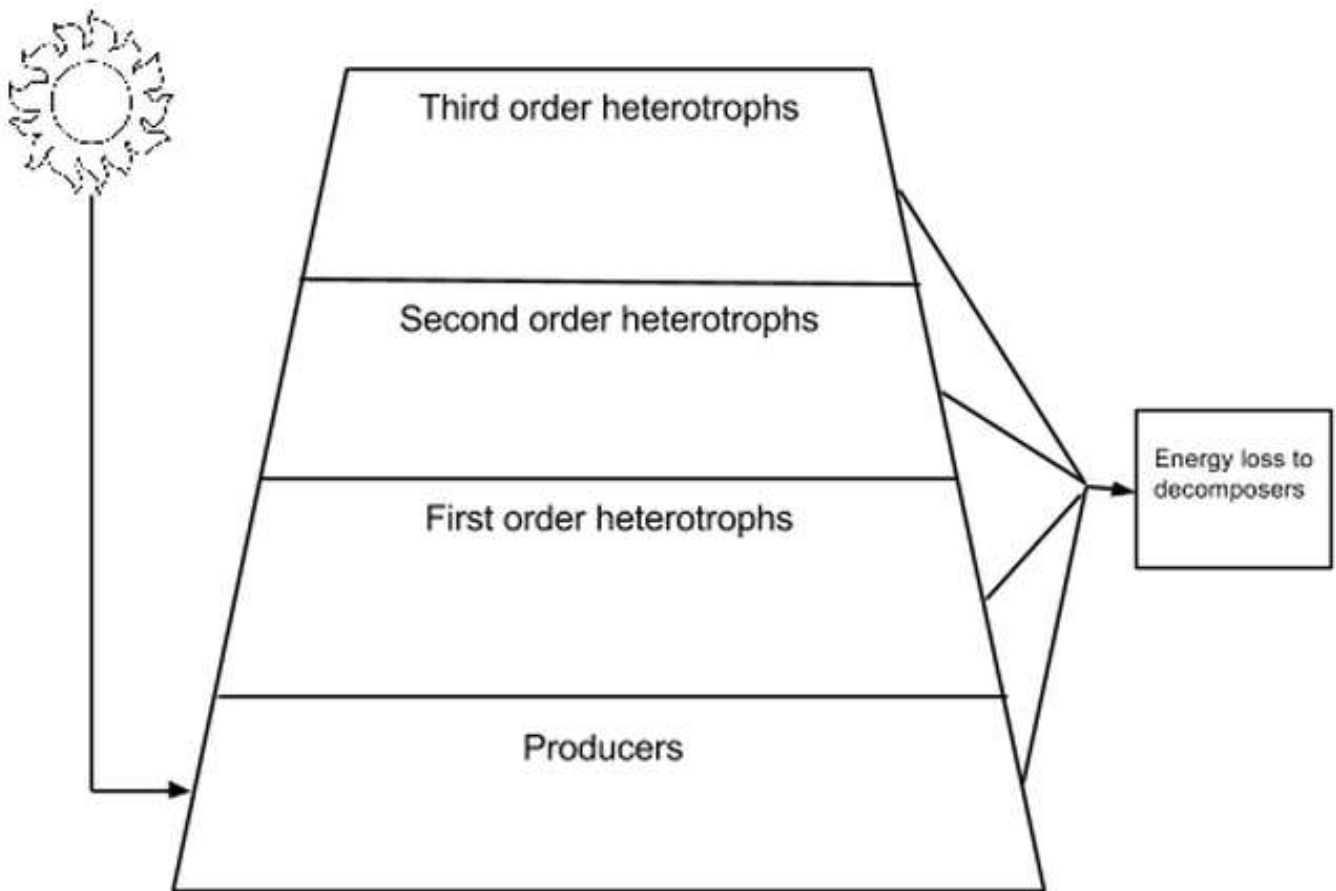
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You will now visit [Model Ecosystems](#). Write down your data:

Energy flow in the \_\_\_\_\_



Make sure you have written down the data for the pyramid of numbers and the pyramid of energy.

Suggest reasons why the information represented in the pyramid of numbers of animals of the ecosystem you studied may not truly represent that ecosystem.

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Does the population size increase or decrease at higher trophic levels in the pyramid of numbers? Why do you think that is?

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What do you notice when you compare the pyramid of numbers and the pyramid of energy?

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Look closely at the data for pyramid of energy. Which level has the least amount of energy available?

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