

# SNC2D BIOLOGY

TISSUES, ORGANS & SYSTEMS OF ...  
☛ Comparing Animal & Plant Systems  
(P.??)

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## Comparing Animal & Plant Systems

*Plants and animals are very different organisms. At the cellular level, however, there are similarities. Plant and animal cells both need to carry out some of the same processes. For example, plant cells, like animal cells, respire. In this process, they use oxygen to "burn" glucose, releasing its energy for other chemical processes in the cells. As well as producing energy, this reaction produces carbon dioxide and water.*



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## Comparing Animal & Plant Systems

*In some ways, the fluid circulation systems in plants and animals are similar. Vascular bundles are similar to the veins and arteries in animals. However, there is one important difference. In animals, the blood is actively pumped around the body by the heart; in plants, liquids move around passively. Plants have no plant part equivalent to a heart.*



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### Comparing Animal & Plant Systems

*One important difference between animals and plants is, since plants use photosynthesis to make their own food they do not need to move around in search of food. As a result, they do not need the complex organ systems that animals possess.*



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### Comparing Animal & Plant Systems

#### COMPARING ANIMALS & PLANTS

- ❖ both have organ systems that work together to accomplish complex tasks
- ❖ similarities:
  - exchange gases
  - move nutrients around their body
  - reproduce
- ❖ differences:
  - plants do not need complex organ systems since they make their own food

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### ✓ Check Your Learning

1. Plants and animals must both obtain food and transport the nutrients within the body. With the aid of a flowchart (next page), compare how animal and plant systems accomplish this similar task.

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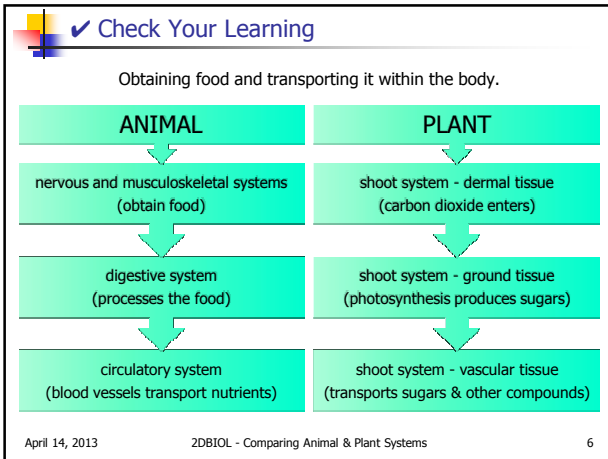
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