

# SNC2D BIOLOGY

TISSUES, ORGANS & SYSTEMS OF ...  
Examining Plant & Animal Cells  
(P.24)

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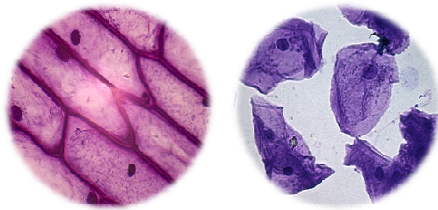
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## Examining Plant & Animal Cells

*As you can see in the photos below, there are some similarities and some differences between plant cells and animal cells that can easily be seen using a compound light microscope. In the next activity you will look at cells from the human body and from a plant in order to see the similarities and the differences.*



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## Activity: Examining Plant & Animal Cells

### INSTRUCTIONS (PART A)

- A. Working in pairs, obtain a microviewer and the two sets of prepared slides – Cells of Your Body (Set 10) and Cells of Plants (Set 11) – from the teacher.
- B. For each set of prepared slides view the slides while reading the descriptions provided in the booklet.
- C. When you are finished return the microviewer and prepared slides.

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**Activity: Examining Plant & Animal Cells (P.24)**

**INSTRUCTIONS (PART B)**

D. Read the activity "A6: Examining Plant and Animal Cells".  
 E. Follow the instructions given (i.e. procedure 1 to 12).

**NOTE:**

- We will observe cheek cells rather than skin cells. The teacher will explain this change (i.e. steps 2 and 3).
- Be sure to follow the rules for proper scientific drawings. Do not worry about including a scale (i.e. steps 7 and 11).
- This is not a formal lab. Just submit your scientific drawings.

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**Activity: Examining Plant & Animal Cells (P.16)**

**INSTRUCTIONS (PART C)**

F. Refer to P.16 of your text and use a chart similar to the one below to compare the differences between a plant and animal cell.

	Plant Cell	Animal Cell
special structures found only in ...		
special compounds found only in ...		
vacuole (size)		
store energy (sugar & fat) as ...		

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**Activity: Comparing Plant & Animal Cells (P.16)**

	Plant Cell	Animal Cell
special structures found only in ...	<ul style="list-style-type: none"> <li>cell wall</li> <li>chloroplasts</li> </ul>	<ul style="list-style-type: none"> <li>centrioles</li> <li>lysosomes</li> </ul>
special compounds found only in ...	<ul style="list-style-type: none"> <li>chlorophyll</li> </ul>	<ul style="list-style-type: none"> <li>hemoglobin</li> <li>cholesterol</li> </ul>
vacuole (size)	<ul style="list-style-type: none"> <li>large</li> </ul>	<ul style="list-style-type: none"> <li>small</li> </ul>
store energy (sugar & fat) as ...	<ul style="list-style-type: none"> <li>starch</li> <li>oils</li> </ul>	<ul style="list-style-type: none"> <li>carbohydrate</li> <li>lipids</li> </ul>

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