

# SNC2D BIOLOGY

TISSUES, ORGANS & SYSTEMS OF ...  
Scientific Drawings  
(P.545)

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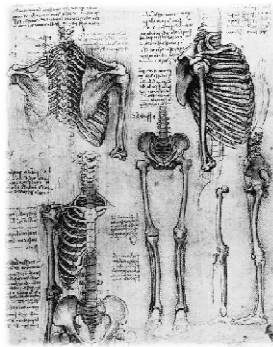
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## Scientific Drawings

*It is useful to record your observations when using a microscope. To record what you observe under a microscope you will often draw a scientific diagram. It is important to make a scientific drawing clear, neat, and accurate. You have to remember though that a scientific drawing is a technique, not art. It is both a representation of the object and a scientific interpretation.*



March 13, 2013

2DBIOL - Scientific Drawings

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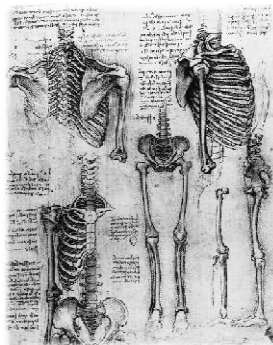
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## Scientific Drawings

**NOTE!**  
*A scientific drawing may show structures that a photo would not show, like a dark element in front of a dark background. It may emphasize structures considered important by the scientist. At the same time, it always remains as close to the object as possible.*



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**Scientific Drawings (P.545)**

Onion cell

vacuole  
nucleus  
chloroplast  
mitochondrion  
cell wall

120X

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**Scientific Drawings**

**CHECKLIST (WS3)**

- Drawing done on blank paper.
- Drawing done with sharp pencil so firm clear lines (no sketching).
- No shading/colour used (stipples allowed).
- Only relevant & easily seen details are included.
- Large drawing (1/2 the page).
- Labels are neatly printed.
- Labels located to the right of the drawing & listed in an even column.
- Label lines are parallel & done with a ruler.
- Label lines do not cross.
- Name & date located in top right corner.
- Appropriate title located at the top.
- Title underlined.
- Total magnification located in bottom right corner.

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**Activity: Scientific Drawings**

**INSTRUCTIONS**

- A. Take a blank piece of paper and fold it in half. Put the fold at the top.
- B. Use a Petri dish to draw a circle on the left hand side of the page. This will represent the microscope view of image #1.
- C. Flip your page over and draw a second circle for image #2.
- D. Use circle #1 to draw a scientific drawing of image #1.
- E. Add labels for important cell organelles such as the cell membrane, cell wall (plant only), nucleus, and cytoplasm.
- F. Add a title, the magnification, the date and your name.
- G. Use the checklist to "check" your drawing. Make any corrections.
- H. Have a partner mark your drawing using the checklist.
- I. Repeat steps E to H for image #2.
- J. Submit your drawings and completed checklists to the teacher.

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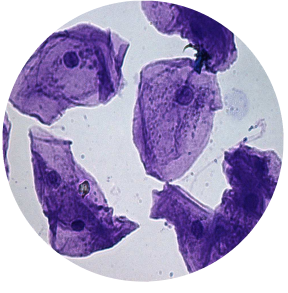

 Activity: Scientific Drawings

IMAGE #1 – PLANT CELL  
(100X)

IMAGE #2 – ANIMAL CELL  
(800X)



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