

Kidney gross anatomy

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Gross Kidney ANATOMY

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Lessons

0

Videos

All

Skill Level

4 hours

Duration

English

Language

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The Kidney and NEPHRONS

In this lesson we will be looking at the structures in the kidney that you might be able to see with a naked eye.

I would like you to draw a kidney, including the pyramids and their nephrons and the blood vessels therein.

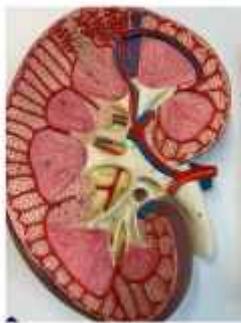
USE THE BLACK AND WHITE PHOTO OF THE KIDNEY - AND THE MODEL FOR LABELLING

This weeks art task is to see if you can use a range of shaded pencils to create depth and highlight those structures that come into the fore.

The final piece of work should take you about 4 hours.

Watch all the videos and learn how to sketch and shade the kidney and vessels. You can sketch and watch along or watch then sketch. Its up to you. Upload your finished piece of work

Lets Begin!



Kidney anatomy

Kidney Images to draw and label

Here are the images of the kidneys as they would be found in the body.

As always there are the vessels carrying nutrient rich blood through the kidneys for filtration and the 'tubing' to carry away all that is filtered towards the bladder.

You need to know which are the blood vessels coming into and going out of the kidney- in addition to the kidney 'piping'.

The dissection as always is a little tricky to identify anything so for ease you can either draw the black and white dissection or the model to help label (the

colours aren't what they're really like).

Your drawing has to be labelled.

Try and make a note of what each of these structures does.

Where have you met some of these structures before?

Watch this video first of how to shade and how I have drawn my kidney

<https://franscienceart.com/wp-content/uploads/2022/02/kidney.mp4>

Labelling sheets and reference diagrams

Dissection of a kidney

Have a look at the human kidney below. See if you can label the following structures. How does this image make you feel?



You need to label:

Ureter

pyramids of renal medulla

renal cortex

renal medulla

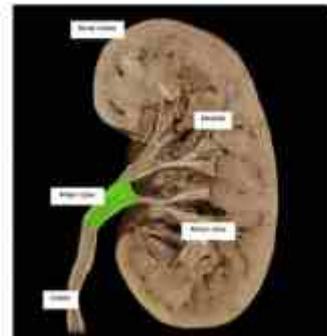
renal sinus

renal artery

renal vein

renal calyx

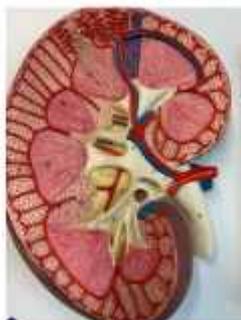
Dissection cheat sheet



Did you get some of the structures correct?

Model of a kidney

This is the image we will be copying. It has labelling on it to help you refer to the anatomical parts as you go along. See if you can recognise the structures from the image above.



With a Grid

When you start drawing, in order for it to be accurate you can use a grid or tracing.



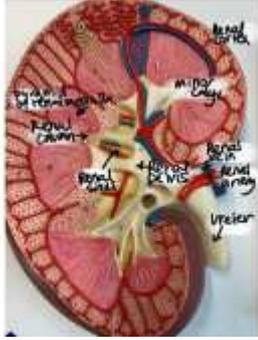
Using a grid enables your drawings to be kept to scale. Draw a grid 4×4 and then see if you can place the organ and vessels accurately

Image for creating tonal range



Model Cheat sheet

Label your drawing with the following....



Forum

Upload your work to the forum here

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Other weeks

[Kidney home page](#)

[Week1: Contextualising the kidney](#)

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“I worked with Fran for many miserable years, but I should emphasize that it wasn’t her fault. She is without doubt one of the nicest and most talented scientists that I have ever met and what sets her apart from the others is the mysterious hold she has over me.”

Philip Miller Tate Surrey, UK

“She puts students at the heart of what she does and is an amazing role model for them. As well as a sparky and inspiring colleague.”

Hilary Wason Kingston University, London

“This course is amazing. Why is it free?”

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