

KIDNEY CUT-OUT

INSTRUCTION SHEET

Part 1:

Colour these kidneys light red. Cut them out. Paste the backs, and stick into your neat book so that the Xs are five cm. apart and sixteen and a half cm from the bottom of your page.

Part 2:

Colour this blue. Cut it out. Paste the back and stick between the kidneys so that the arrowed end is on a level with the top of the kidneys and the arms of the vein enter the kidneys over the Marks X.

Part 3:

Colour this bright red. Cut it out. Paste the back and stick between the kidneys as for Part 2. The arms of this artery will overlap the arms of the vein and will be level with them at the top.

Part 4:

In the centre of these kidneys are black 'feather' lines. Go over these lines with a very bright red. Shade the rest of the kidney in light red. Cut them out. Paste the tips at the backs of the arrowed ends and stick so that Part 1 is covered.

Part 5:

Colour all of this yellow. Cut out. Paste at the backs of the areas at the arrowed ends and stick so that areas Y of Part 4 are covered. Paste the back of the bladder and stick down.

Part 6:

This is a strainer highly magnified. Colour the cup-shape A in green. Above is a knot of blood vessels. Colour the left hand side of this knot in red and the right hand side in blue. Cut out round the dotted lines. Paste the back of the tab and fix this between the ticks at the top of Part 4 so that the strainer empties into the shaded portion of the kidney.

Part 7:

Colour these light red. Cut out. Paste at the backs of the sticking tabs and fix into your book so that they fit over the kidneys beneath.

Part 8:

Colour this tan/light brown.

Make your key, numbering your cut-out as follows and colouring your key appropriately.

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| 1. Outside layer | 5. Bladder |
| 2. Inside part | 6. Renal arteries |
| 3. Coll of blood vessels (nephrons) | 7. Renal veins |
| 4. Thick tube leading from kidney | 8. Urethra |

