

Do you want to be the first chef to make a scientific dish?

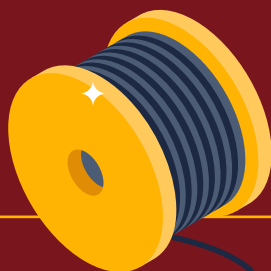
Follow the instructions below to be the most innovative chef in the world. You are going to cook blood vessels.



1

You need the following material:

A



Piece of string

B

3 types of pasta that will represent each vascular structure:



← CANNELLONI

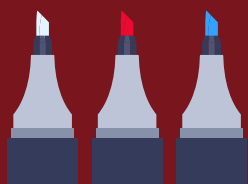


← RIGATONI



← DITALI PASTA

C



3 Markers

2

Cut 5 strands and group them into the following 3 groups:

A

RIGATONI GROUP:
Only 1 strand



B

CANNELLONI GROUP:
Only 1 strand



C

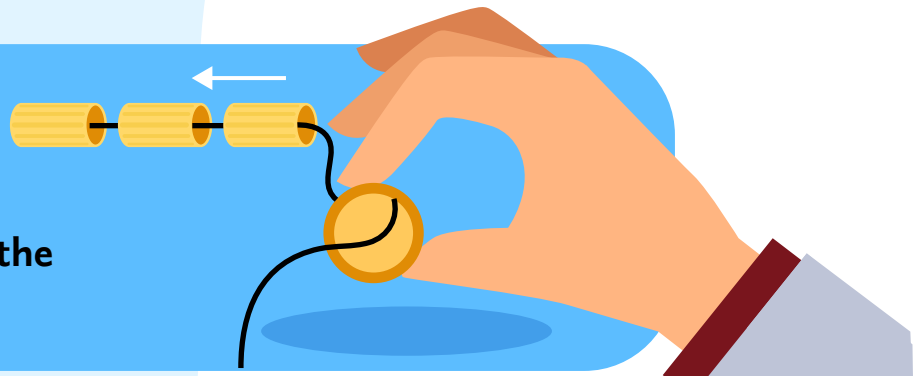
DITALI GROUP:
3 strands



3










Fill the threads

of each group (Rigatoni, Cannelloni, Ditali) with the corresponding pasta.

**4**

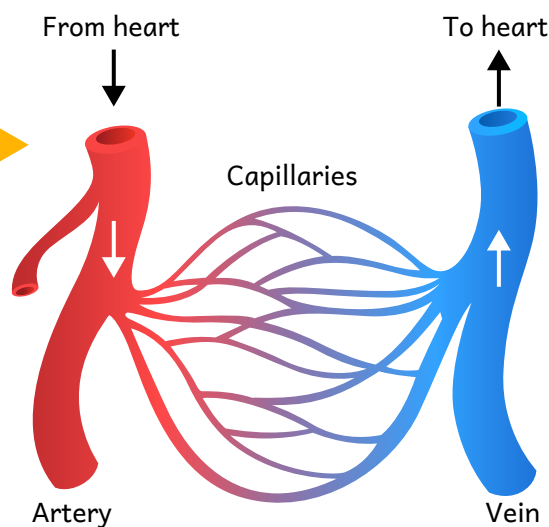
Identify which type of pasta represents each vascular structure

Take into account the characteristics of the table below.

STRUCTURE	VEIN	ARTERY	CAPILLARY
Function	Send blood to heart	Send blood away from heart	Material exchange with tissue
Wall width	Thin 	Thick 	Single layer of small cells 
Lumen size	Large	Small	Very small
Valves present	Yes 	No 	No 
PASTA TYPE?			

5

Try to create the real shape of the blood vessel system with your different pasta strands.

**6**

Mark the direction of the blood through the pasta using the markers

if the heart is at the top of your dish.