

PLTW Principles of Biomedical Science

Lesson 3: April 8th

Learning Targets / Daily Objectives:

Students will be able to draw and identify the heart, along with identify, locate and draw arteries and veins of the heart. (*Reference: PLTW[®] 4.1.1 Path of the Blood in the Heart*)

Let's Get Started (Bell Ringer):

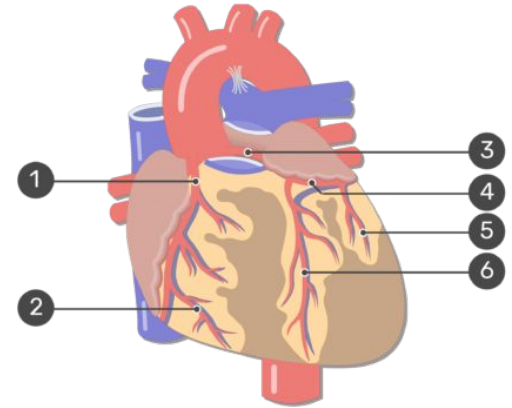
Watch Video: [Cardiology - Coronary Blood Supply](#)

Read Quick Article: [Cleveland Clinic Coronary Arteries](#)

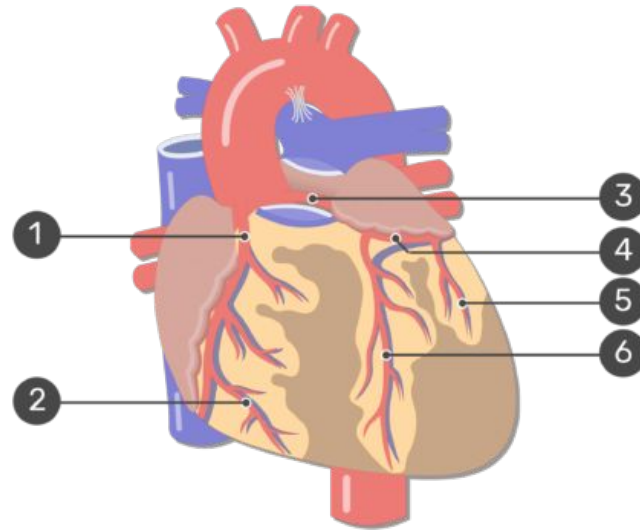
Lesson/Activity continued:

Use your resources to locate the following coronary arteries on the illustration to the right, place your answers in your notebook or on a separate piece of paper:

- Anterior interventricular artery
- Left Marginal artery
- Left circumflex artery
- Left coronary artery
- Right marginal artery
- Right coronary artery



Answers:



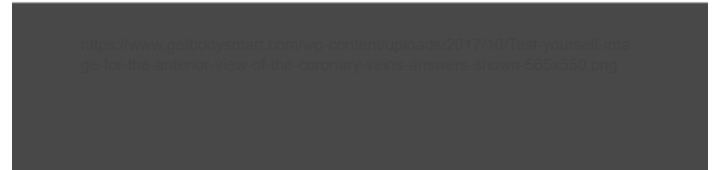
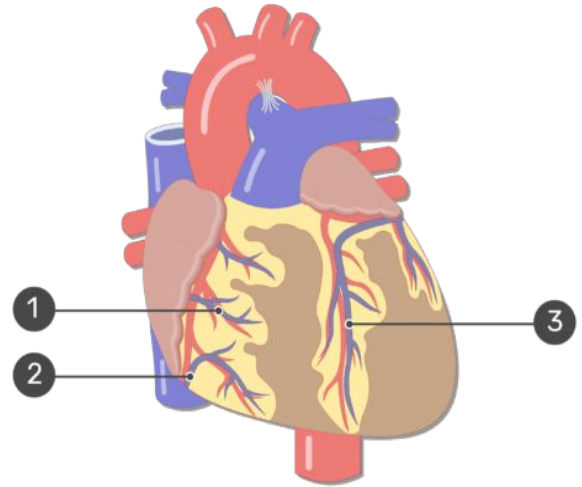
1. Right coronary artery
2. Right marginal artery
3. Left coronary artery
4. Left circumflex artery
5. Left marginal artery
6. Anterior interventricular artery

<https://www.getbodysmart.com/wp-content/uploads/2017/10/Test-yourself-image-for-the-anterior-view-of-the-coronary-arteries-of-the-heart-answers-shown-513x550.png>

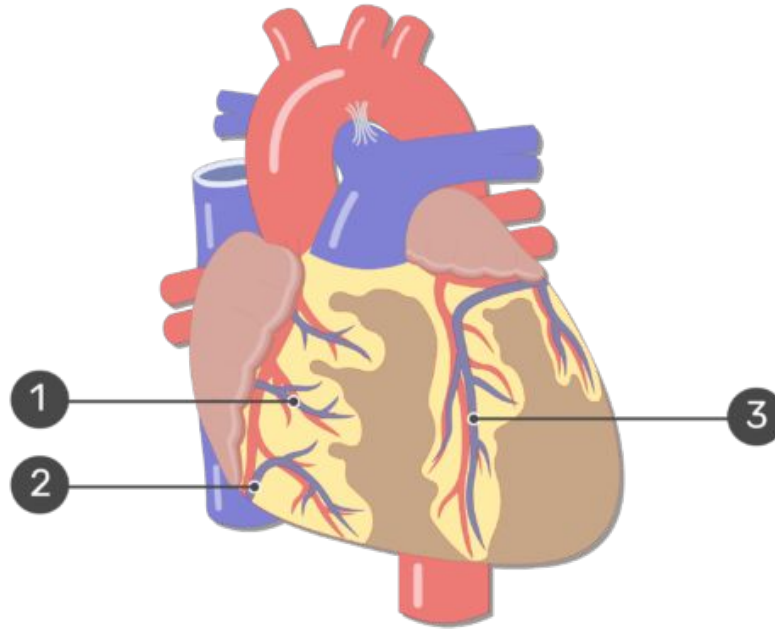
Lesson/Activity continued:

Use your resources to locate the following anterior coronary veins on the illustration to the right, place your answers in your notebook or on a separate piece of paper:

- Anterior cardiac vein
- Small cardiac vein
- Great cardiac vein



Answers:

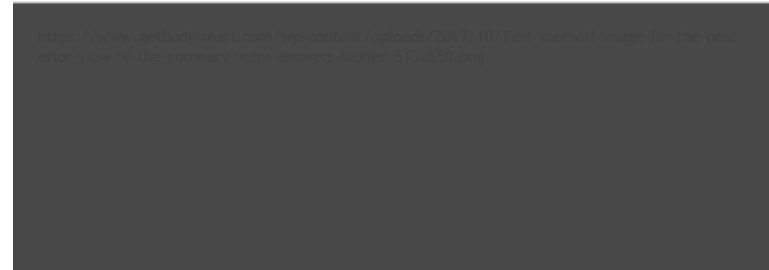
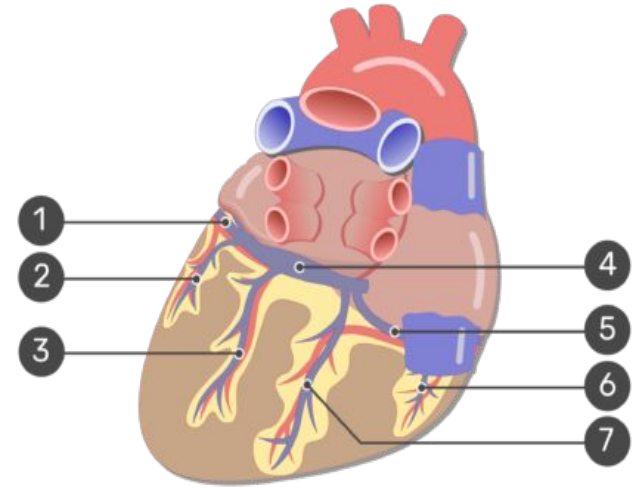


1. Anterior cardiac vein
2. Small cardiac vein
3. Great cardiac vein

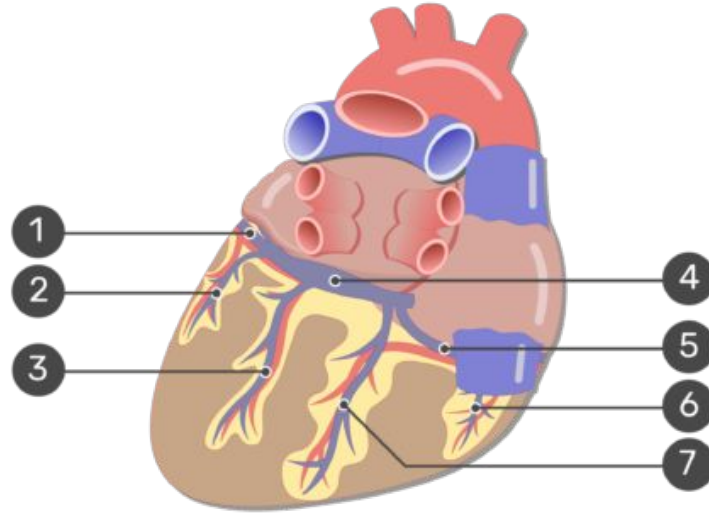
Lesson/Activity continued:

Use your resources to locate the following posterior coronary veins on the illustration to the right, place your answers in your notebook or on a separate piece of paper:

- Middle cardiac vein
- Great cardiac vein
- Right marginal vein
- Left Marginal vein
- Small cardiac vein
- Posterior vein or left ventricle
- Coronary sinus



Answers:



1. Great cardiac vein
2. Left marginal vein
3. Posterior vein or left ventricle
4. Coronary sinus

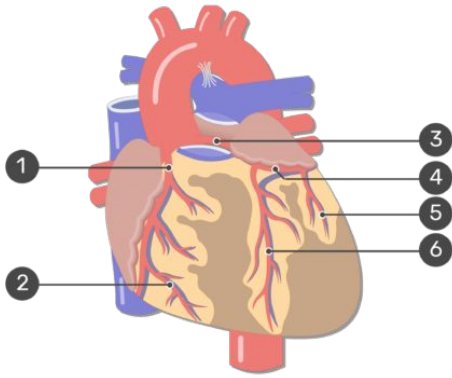
5. Small cardiac vein
6. Right marginal vein
7. Middle cardiac vein

Lesson/Activity continued:

Get out the drawing of the heart that you made in the lesson 1 practice activity. Use your resources to locate the following coronary arteries and veins and place them in the correct location on your drawing. Make a key that shows their location on your drawing.

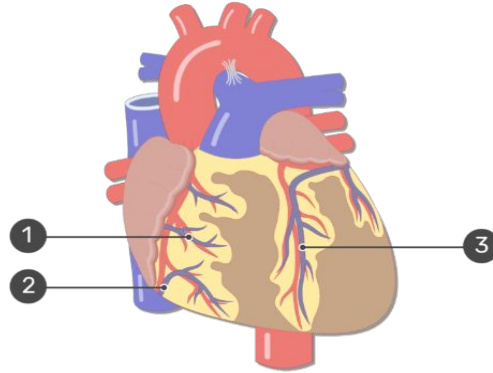
- Anterior interventricular artery
- Left Marginal artery
- Left circumflex artery
- Left coronary artery
- Right marginal artery
- Right coronary artery
- Anterior cardiac vein
- Small cardiac vein
- Great cardiac vein
- Middle cardiac vein
- Great cardiac vein
- Right marginal vein
- Left Marginal vein
- Small cardiac vein
- Posterior vein or left ventricle
- Coronary sinus

Answers:



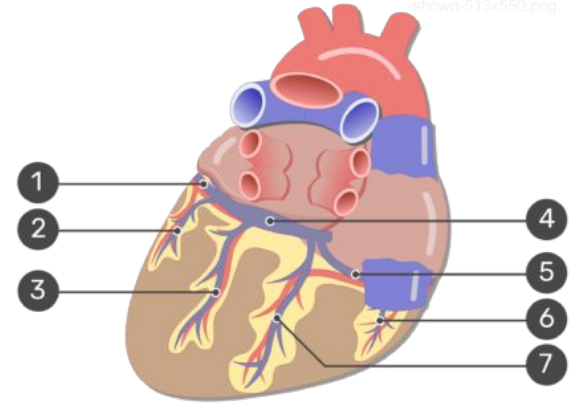
1. Right coronary artery
2. Right marginal artery
3. Left coronary artery
4. Left circumflex artery
5. Left marginal artery
6. Anterior interventricular artery

<https://www.getbodysmart.com/wp-content/uploads/2017/10/Test-yourself-image-for-the-anterior-view-of-the-coronary-arteries-of-the-heart-answers-shown-513x550.png>



1. Anterior cardiac vein
2. Small cardiac vein
3. Great cardiac vein

<https://www.getbodysmart.com/wp-content/uploads/2017/10/Test-yourself-image-for-the-anterior-view-of-the-coronary-veins-answers-shown-565x550.png>



1. Great cardiac vein
2. Left marginal vein
3. Posterior vein or left ventricle
4. Coronary sinus
5. Small cardiac vein
6. Right marginal vein
7. Middle cardiac vein

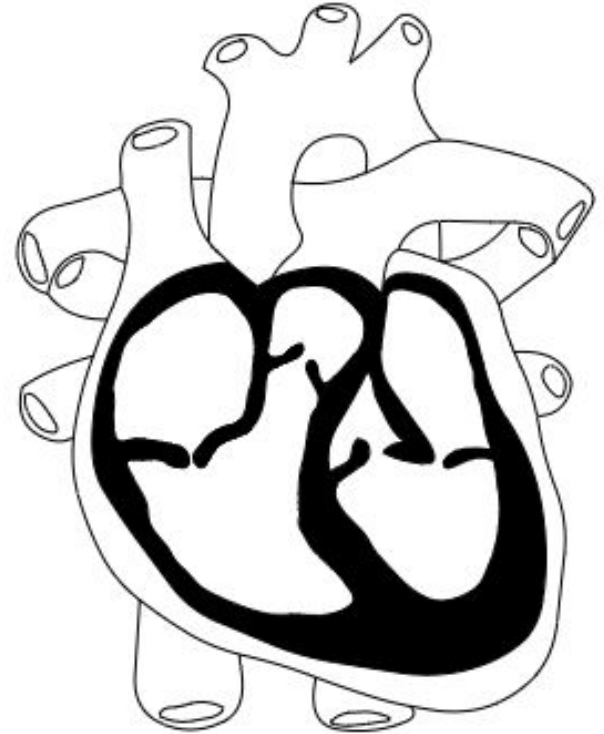
<https://www.getbodysmart.com/wp-content/uploads/2017/10/Test-yourself-image-for-the-posterior-view-of-the-coronary-veins-answers-shown-513x550.png>

Practice:

Go to this website:

[The Anatomy of the Heart \(Interactive\)](#)

Now practice by following the interactive animation's directions, "Now it's your turn!" Click on the parts of the heart to quiz yourself.



Additional Practice:

Click on the links below to get additional practice and to check your understanding!

[Label the Heart \(Interactive\)](#)

[Quiz on the Blood Flow Through the Heart](#)

[Putting it in Order Quiz: Path of Blood](#)