

Every Part Does Its Part

Lesson One: Students will learn about the major parts of the heart & what each part does to keep bodies healthy & strong.

MATERIALS FOR EACH PAIR OF STUDENTS:

1. Copy of the "Every Part Does Its Part"
2. Scissors
3. Glue



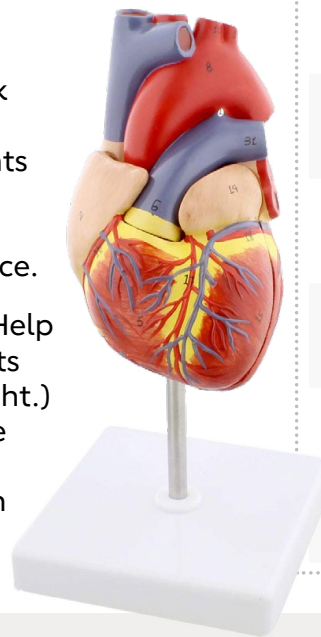
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SETUP:

Show students the heart model. Share that the heart is actually a muscle the size of their fist and that it will stay that size even as they continue to grow. Remind students that the job of the heart is to pump blood to every part of their body. Remove the front piece of the model so students can see inside the heart. Point out the right and left sides. Guide students to see that each side, is divided into two chambers.

Next, divide the class into pairs. Distribute the materials listed above. Have each twosome work together to complete the printable as directed. Check students' work as a class, directing students to reposition any boxes they placed incorrectly. Once the position of each box has been determined, have students glue the boxes in place.

To conclude, divide the class into small groups. Help each group locate on the model each of the parts shown on the printable. (See the chart on the right.) Each time students find a part, have them shade the small circle beside the part's name on the printable. (Note: The septum is not numbered on the model, but can be easily located.)



PART	NUMBER PART ON MODEL
Vena Cava	3, 4
Veins	3, 4, 19, 20, 21, 32, 34
Right Atrium	1
Valves	26, 27, 29, 30
Right Ventricle	5
Left Ventricle	15
Septum	Not Numbered on Model
Left Atrium	28
Artery	10, 11, 16, 17, 18, 22, 31, 33
Aorta	7, 8, 13



EXTEND WITH STEM

- The blood that is pumped to the lungs absorbs oxygen. Challenge students to design an experiment that will help them determine which of several types of materials are more absorbent, such as felt, cotton balls, washcloths, paper towels, cloth napkins, and bath scrunchies. Then have students conduct their experiments and share their results.
- The circulatory system is like a delivery system: the blood carries oxygen, and nutrients. It also picks up stuff your body doesn't need, such as carbon dioxide, and takes it to a part of the body that can get rid of it, such as your lungs. Divide the class into small groups. Give each group a box of recyclables and art materials. Have the group position two student desks so they are 12 inches apart. Then challenge the group to use the box of materials to design and test a delivery system that will move a pencil from one desk to the other.

Every Part Does Its Part

Name: _____

Date: _____

Cut out each definition at the bottom of the page and place it in the correct box. After checking and correcting your work, glue the boxes to the diagram.

4. VENA CAVA

5. AORTA

6. ARTERY

7. LEFT ATRIUM

3. VEINS

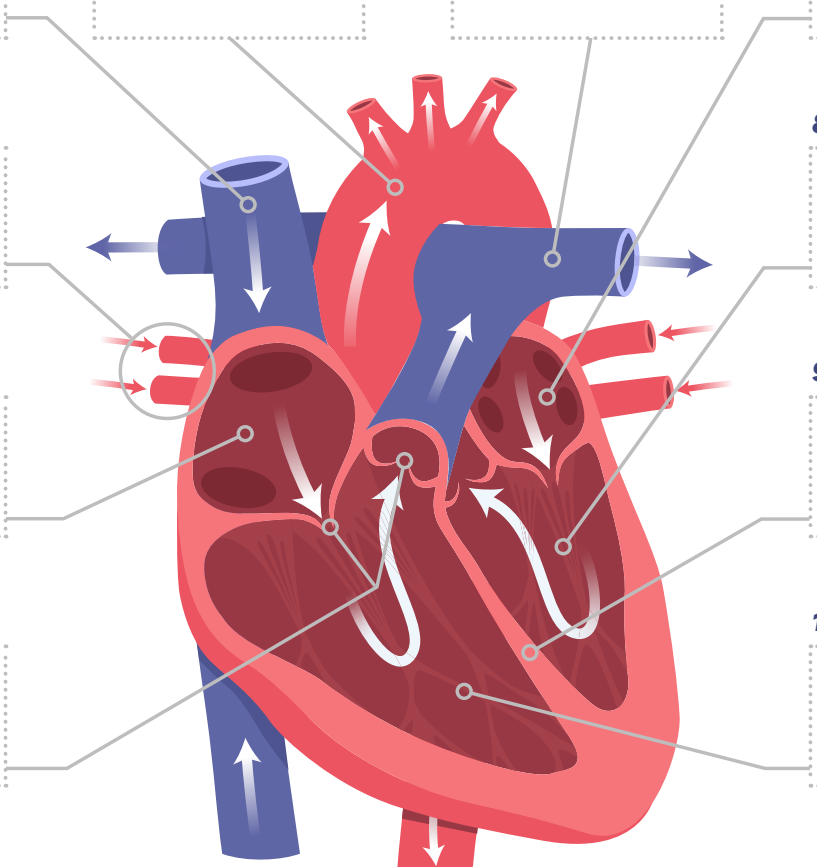
8. LEFT VENTRICLE

2. RIGHT ATRIUM

9. SEPTUM

1. VALVES

10. RIGHT VENTRICLE



takes blood away from the heart	takes blood to the heart	one of two large veins that return blood to the heart	large artery; brings blood from the heart to the rest of the body	wall of muscle that separates the right and left sides of the heart
structures through which blood passes; there are four in the heart	receives blood from the body and sends it to the right ventricle	receives blood from the right atrium and pumps it into the lungs	pumps oxygen-rich blood from the body to the left ventricle	receives blood from the left atrium and pumps it out to the body

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Answer Key

4. VENA CAVA

one of two large veins that return blood to the heart

5. AORTA

large artery; brings blood from the heart to the rest of the body

6. ARTERY

takes blood away from the heart

7. LEFT ATRIUM

pumps oxygen-rich blood from the body to the left ventricle

3. VEINS

takes blood to the heart

8. LEFT VENTRICLE

receives blood from the left atrium and pumps it out to the body

2. RIGHT ATRIUM

receives blood from the body and sends it to the right ventricle

9. SEPTUM

wall of muscle that separates the right and left sides of the heart

1. VALVES

structures through which blood passes; there are four in the heart

10. RIGHT VENTRICLE

receives blood from the right atrium and pumps it into the lungs

