

Build a Model Heart Worksheet

Post-Lab Questions

1. Draw a picture of the heart model and label each balloon and clamp to show what it represents.
2. Compare and contrast the heart model and an actual mammalian heart. How are they similar? How are they different?
3. The heart pumps blood through the lungs and the rest of the body. Although the heart model does not biologically represent the lungs and other organs, is it physiologically correct in displaying the pumping action of the heart?
4. Plaque can form on arteries due to unhealthy diet as well as other factors. How could the heart model be modified to simulate the effects of plaque buildup in the arteries?
5. The heart forms before any other organ in the mammalian body. Based on the simplicity of this model why does it make sense that the heart develops before other organs?
6. Why do both atria contract simultaneously? *Hint:* Use an additional reference source as necessary.