

SCULPTING THE HEART OUT OF CLAY

1. Roll a 1" by 1" piece of terracotta clay into a ball.
2. Mold the ball into the shape of a heart by making it wider at the base and narrower at the apex.
3. Create the 4 chambers of the heart using one of the clay molding tools. Carve a groove around the perimeter of the heart about a third of the way from the top, to separate the atria from the ventricles. Next score a groove vertically around the long axis of the heart passing just left of the apex to separate the right and left sides of the heart. Review the chambers, by naming them on your heart.
4. Roll out long strands of blue and pink clay to form the great vessels of the heart.
5. To make the pulmonary trunk and pulmonary arteries, take a small strand of blue clay and form it into a "T" shape. The stem of the "T" should be $\frac{1}{4}$ " - $\frac{1}{2}$ " in height and the crossbar of the "T" should be about $\frac{1}{2}$ " - 1" (see the illustration below).
6. Place the pulmonary trunk and pulmonary arteries on the top front of the heart just near the groove dividing the right and left side of the heart.
7. To make the aorta use a thick 4" strand of pink clay. Attach it to the top of the heart just to the right of pulmonary trunk and loop it over the pulmonary arteries. The aorta arches backward over the heart and continues down the back of the heart.
8. Attach 3 small stubs of pink clay to the arch of the aorta to designate the 3 arteries that arise from the aortic arch, next week we'll expand them.
9. To make the superior vena cava use a 6" strand of blue clay and attach it to the top of the right atrium.
10. To make the inferior vena cava use a 3" strand of blue clay and attach it to the rear and bottom of the right atrium.
11. To indicate the pulmonary veins place 4 small stubs of pink clay on the left atrium.
12. Terrific, you've done a great job! Compare your heart to the model. Review the vessels by naming them on your heart and the model.

