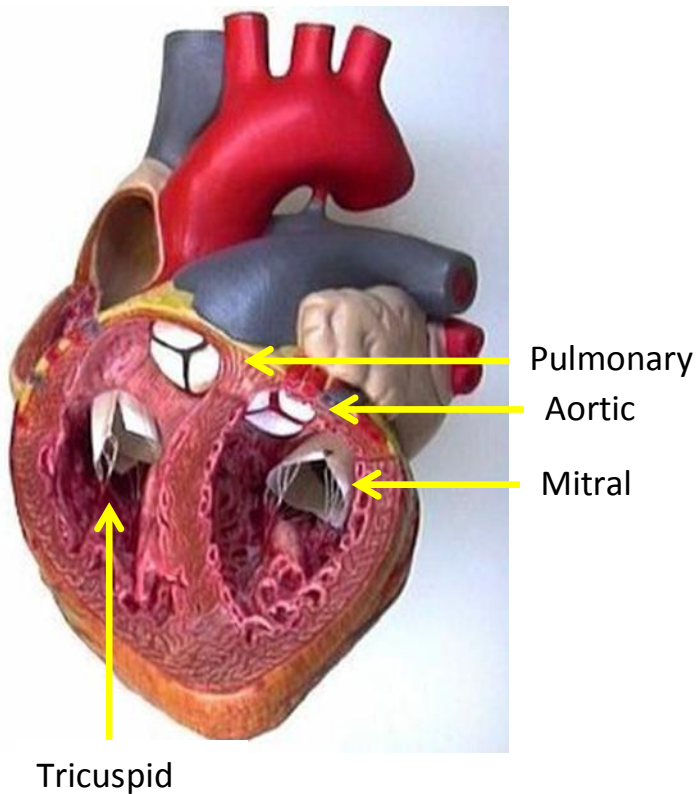


Cardiac Cycle

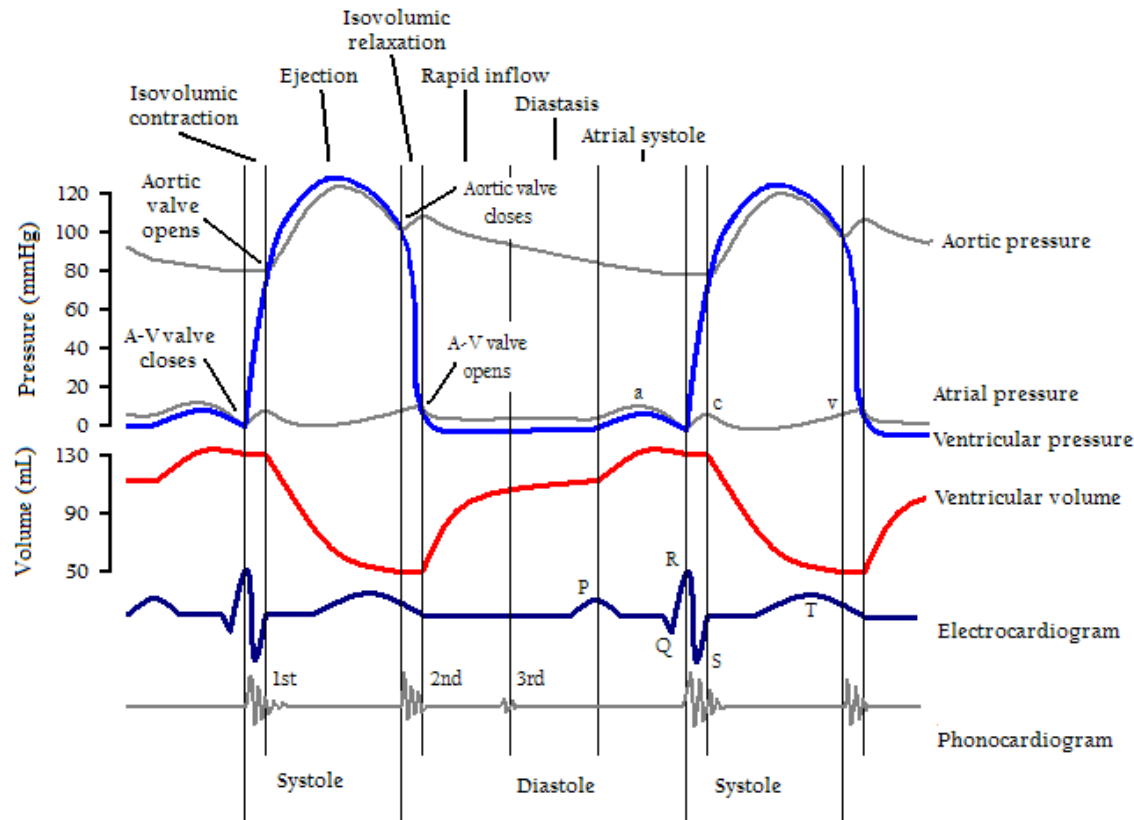
Purpose:

This is an activity to familiarize students with the anatomy of the heart as well as the blood flow through the heart and ultimately the rest of the body.

Order of events: My Teeth Are Pretty (MTAP): Mitral, Tricuspid (almost simultaneously), then Aortic and Pulmonary (almost simultaneously)



1	Pressure build up in ventricles Person 1 and Person 2: Hum. Stop when Aortic and Pulmonary valves opens
2	Mitral and Tricuspid valves close. Person 3 "LUB"
3	Persons 1 and 2 increase their pitch
4	Aortic and Pulmonary valves open. Persons 4 and 5, "Whoosh"
5	Blood flows to legs (Person 6 stands and sits) and lungs (Person 7 "Aahh")
6	Aortic and Pulmonary valves close. Persons 8, "Dub"
7	Blood flows back into left and right atria. Atrial pressures increase. Persons 1 and 2: Hum. Stop when Mitral and Tricuspid open.
8	Mitral and Tricuspid valves open. Person 9: "Open", Person 10 "Sesame"



Discussion Points:

1. Discuss how an artificial heart differs from the natural heart? (Preload, contraction, Frank-Starling law)