

Honors Physiology
Heart Contraction Jigsaw

Name: KEY

Directions: Using textbook pages 692-700, complete your section of the jigsaw below. Then, take notes on the sections presented on by your group members:

- # 1 = Sequence of Excitation (5 steps)
- # 2 = Electrocardiograms (3 waves)
- # 3 = The Cardiac Cycle (3 phases)
- # 4 = Extrinsic Control of Heart Rate (ANS, Chemical and other factors)

#1 Sequence of Excitation

- 1 SA Node (Atrial contraction)
- 2 AV Node
- 3 AV Bundle (in the septum)
- 4 Right & Left branches
- 5 Purkinje fibers (spread through ventricles)

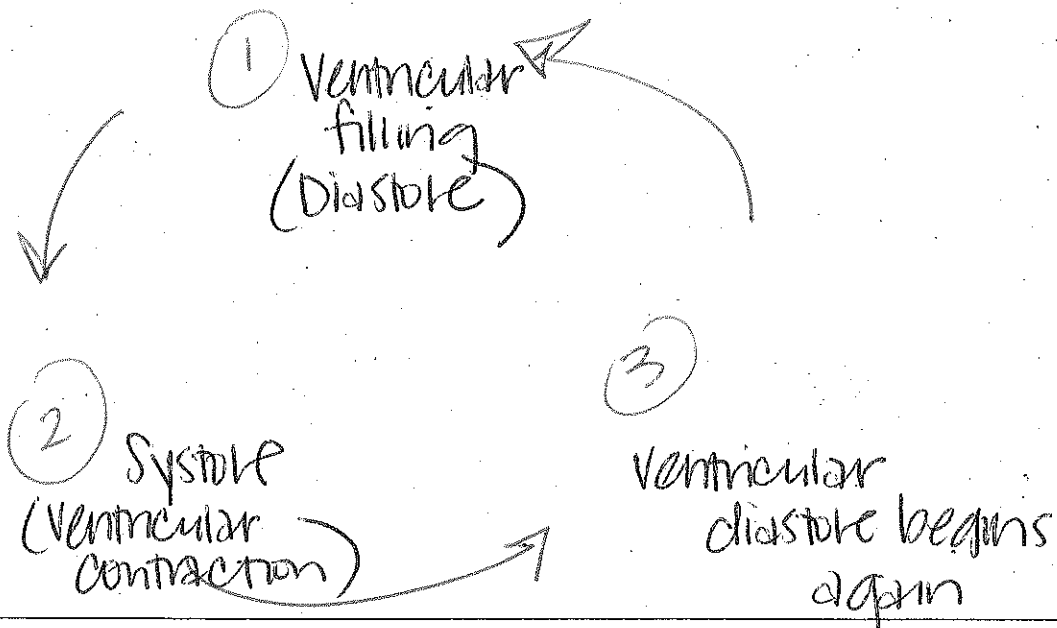
#2 Electrocardiogram

P wave → Atrial Depolarization

QRS complex → Ventricular Depolarization
(+ Atrial Repolarization)

T wave → Ventricular Repolarization

#3 The Cardiac Cycle



#4 Extrinsic Control

ANS

Sympathetic → Increase \heartsuit rate

Parasympathetic → decrease \heartsuit rate

Hormones

Other

Age, sex, diet / exercise, etc...