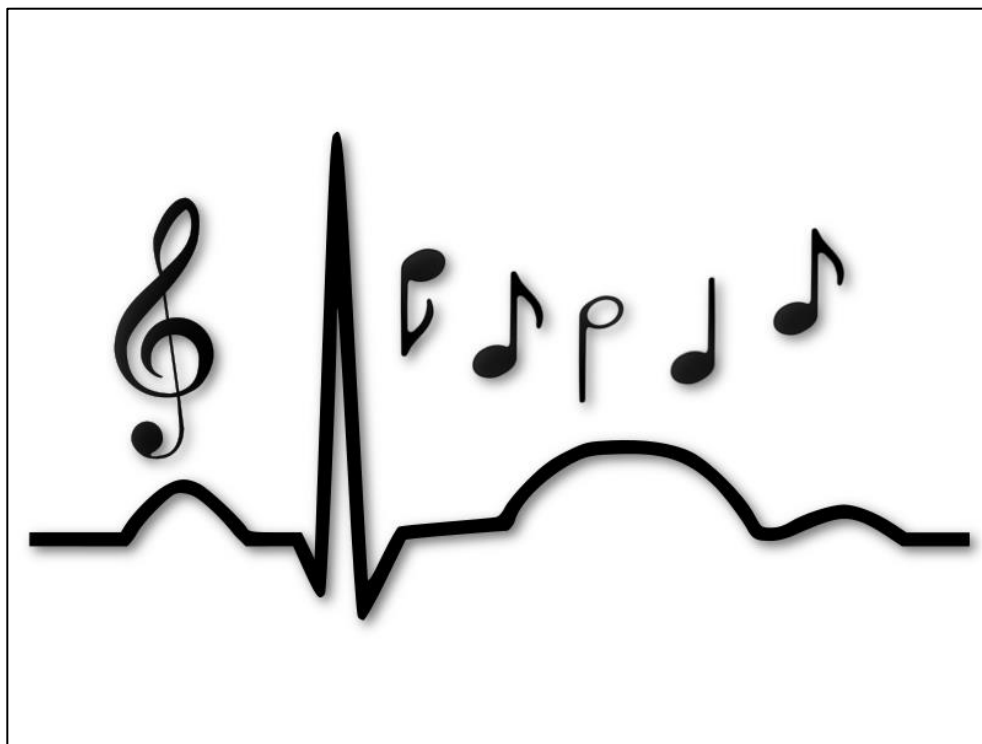


Inquiry Question

There are lots of songs and poems about the heart, but can you write one that is about the heart from a biological point of view?

Name: _____ **Date:** _____

There are hundreds of songs and poems about the heart, but how many of them are about it from a biological point of view? In this project you will either adapt an existing poem/song or write a new one about the heart. Your poem or song will address the structure and function of the heart.



General Instructions

- Read through the lessons on the Heart in their entirety.
- There are hundreds of songs about the heart and now you get to add one more! Please either adapt an existing poem/song or create a new poem/song about the heart making sure that it meets 1 of the 3 criteria lists below (simply choose 1 of the 3 lists to write about). Please feel free to record yourself performing the song if you have the talent, or even just the fun, free spirit, to do so! However, performing the song is not necessary as you simply must provide the lyrics.

This Project will be graded according to the Marking Guide at the end of this document.

Project Submission:

Submit your word document and/or mp3 to the project drop box

Choose one of the following options:

Song / Poem Option #1

A poem/song strictly about the heart's structure must discuss the following:

- Internal Structures:
 - right atrium
 - right AV valve
 - right ventricle
 - right semilunar valve
 - pulmonary artery
 - pulmonary vein
 - left atrium
 - left AV valve
 - left ventricle
 - left semilunar valve
 - aorta
 - inferior/superior vena cava
 - chordae tendineae
- the path of blood flow through the heart
- lub-dubb
- explanation that right side pumps deoxygenated (low oxygen) blood to lungs/pulmonary circuit while left side is more muscular and pumps oxygenated (high oxygen) blood to body/systemic circuit.

Song / Poem Option #2

A poem/song strictly about how the heart beats must discuss the following:

- cardiac cycle
 - systole
 - diastole
- intrinsic control
 - SA Node (pacemaker)
 - AV Node
 - AV Bundle (aka Bundle of His)
 - Purkinje fibres
- extrinsic control
 - medulla oblongata
 - Vagus nerve
 - parasympathetic system decreasing heart rate
 - sympathetic system increasing heart rate
- explanation of contraction pattern
 - atria together and first from top down ventricles together and second from bottom up

Song / Poem Option #3

A poem/song about heart structure and how the heart beats must discuss the following:

- internal structures
 - right atrium
 - right ventricle
 - left atrium
 - left ventricle
 - valves
 - path of flow of blood through the heart
 - lub-dubb
- cardiac cycle
 - systole
 - diastole
- intrinsic control
 - SA Node (pacemaker)
 - AV Node
- extrinsic control
 - parasympathetic system decreasing heart rate
 - sympathetic system increasing heart rate
- explanation of contraction pattern

- atria together and first from top down ventricles together and second from bottom up

Marking Guide

Marking Guide	
Criteria for poem / song fully met	/10
Lyrics / explanations are understandable and accurate	/12
Song shows signs of creativity and critical thinking	/3
TOTAL	/25