

# MEDNET

Model Exchange & Development of Nursing &  
Engineering Technologies



## Heart Model

MEDNET File: Heart.zip

### Description

A multicolor 3D model of the heart. It is printed from PLA filament for the College of Nursing to use.

### Features

This heart model is used in the college of nursing for students to be able to view valves and veins inside of the heart. The heart model we created was printed on a multicolor 3D PLA printer so that different parts of the heart can be easily differentiated using different colors.

### Development Information

Materials needed: PLA filament (multicolor)

Finished dimensions: 5"x 3.24"x 3.5"

PLA filament  $\approx$  0.42 of a roll (multicolor)

Production time  $\approx$  41 hours 30 minutes

Approximate materials cost: \$10.50

### Instructions for Use

The nursing department uses these models to show students what each part of the heart looks like. The students can tell the differences between each part of the heart using the different colored filaments.

## Material Procurement Information

Filament: Hatchbox Filament 1.75mm - \$22.99/roll (prices vary per color)

[https://www.amazon.com/HATCHBOX-3D-Filament-Dimensional-Accuracy/dp/B00J0ECR5I/ref=sr\\_1\\_4?crid=2GJUX43SIM4TP&dchild=1&keywords=pla+filament+1.75mm&qid=1590077168&prefix=pla+filament%2Caps%2C178&sr=8-4](https://www.amazon.com/HATCHBOX-3D-Filament-Dimensional-Accuracy/dp/B00J0ECR5I/ref=sr_1_4?crid=2GJUX43SIM4TP&dchild=1&keywords=pla+filament+1.75mm&qid=1590077168&prefix=pla+filament%2Caps%2C178&sr=8-4)

\*citations: Forney, S. Heart Model. MED-NET. Retrieved from uahmednet.org.