

TPJ Technology

Project Name — Heart Model

Context: Students will comprehend concepts and structures related to the heart and circulatory system.

Design Brief: To design and create a heart.

Possible Solutions: List as many possible (alternative) solutions to achieve the goal of the Design Brief.

Design Constraints:

1. You will work individually.
2. You will prepare a written statement outlining the flow of blood through the heart.
3. List all other considerations you had to make during this project.

Detail Design: The following are the steps for the task:

1. Using “found” or home-made materials, you are to design and build a model of a heart. (some ideas: plastercine/play dough, Paper Mache, tubing, garden hose, etc.)
2. The model shall be life-size or up to twice life-size.
3. All major arteries and veins entering and exiting the heart will be modeled and labeled.
4. All chambers and valves shall be labeled.

Materials: List all of the materials you used to create your model.

Commissioning: Were you successful in this project when you tried it out?

Evaluation: Did this project work as you expected it to?

Reflection: Did you enjoy this project? What were you most proud of? What would you do differently next time?