Building a Better Organ

Summary
Students will read about the development of the artificial heart and then choose from a list of organs to design a "working" model of one of them.

Main Core Tie
Science - Biology
Standard 3 Objective 1

Time Frame
3 class periods of 60 minutes each

Group Size
Small Groups

Materials
- student sheet
  (attached)
craft sticks
odds and ends
rubber bands
springs
tape
scissors
plastic tubing
packing materials
plastic wrap
game stuff
things students bring in

Background for Teachers
Time Needed:
180 minutes spread over several days.

Instructional Procedures
Day one-40 minutes
Begin with the Opinionaire and Artificial Heart reading activity. It is on this website.
Gather as much "stuff" as you can, run off student sheets.
Day two-45 minutes
Read introduction and procedures with students.
Organize students into groups of 3-4 and begin the research component of the task. Students must first pick their organ.
Have students decide who is bringing in the materials they need if it is more than you can provide.
Day 3-45 minutes
Allow time to build the organ and test it.
Day 4-40 minutes
Student groups will share their product with the class.

Bibliography
Lesson Design by Jordan School District Teachers and Staff.

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