

# Bionics4Education

## Robotic Fish - Tasks

The robotic fish project tasks are identified here. Together as a team, assign each task to a team member. Try to divide the tasks up evenly amongst the team members. Record the team member's name on the sheet in the space provided under each task listed.

|                              |                                       |   |   |   |
|------------------------------|---------------------------------------|---|---|---|
| Charge battery               | Make fin                              | Organize bottle                                 | Evaluate project results                                  | Connect microcontroller with battery            |
| Installation App             | Set-up water basin                    | Fill water basin with water                     | Optimize underwater movement (App)                        | Evaluate team's work                            |
| Mount servo motor            | Adjust the rudder                     | Connect body to Fin Ray                         | Document assembly, testing, etc. (video)                  | Analyze biological role model                   |
| Connect bottle/jar with body | Add lateral fins                      | Connect Fin Ray with fin                        | Prepare work space/surface                                | Integrate design features                       |
| Seal body                    | Tare                                  | Program the microcontroller (advanced activity) | Bionics Kit: Verify/identify correct equipment & supplies | Research shapes of fins                         |
| Connect servo motor          | Connect battery                       | Attach the rudder with the Fin Ray              | Clean up your work space/surface                          | Present project plan                            |
| Make head                    | Interconnect App with microcontroller | Ensure leakproof design                         | Mount battery   | Monitor project progress                        |
| Control steering             | Conduct testing                       | Optimization                                    | Disassemble bionic fish                                   | Monitor task times to ensure timeline on target |