Bird Baja Restoration Project

Project:

Restore a 1980 Byrd Baja go-cart.

Expectations:

Students will:

- Tear down the machine
- Inventory parts that can be reused
 - Bag and label parts and keep an inventory of them
- Inventory parts that will need to be replaced
 - Bag and label parts to keep to compare with new parts to ensure that they will fit
- Order new parts
 - Look up new parts
 - Order new parts
 - Reconcile shipping receipt with new parts
- Clean and Paint parts that will be reused
 - Includes glass beading
- Clean and repair the body as needed
- Assemble machine
- Test run engine and machine
 - Ultimately take a field trip to Pine Lake Race Track to test run the newly restored machine.
- Fabricate new parts if/when necessary by collaborating with other school programs, such as Welding and Precision Engineering.

Major Components:

5 HP Tecumseh 4-Stroke Engine

- Disassembly
- Inspect for wear
- Order new parts
 - o This also includes interacting with the machine shop
- Engine assembly
 - o Piston Rings
 - o Cylinders
 - o Heads
 - Set timing
 - o Test run

Peerless Axle Assembly

- Disassemble
- Inspect for wear
- Order new parts if needed
- Paint housing
- Assemble axle