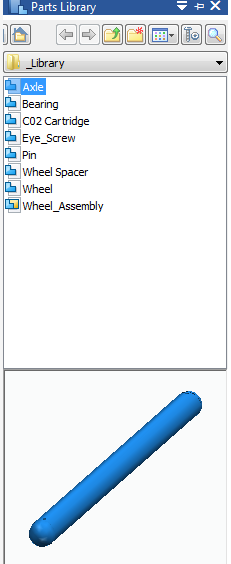
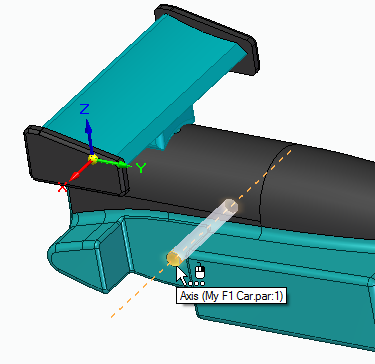
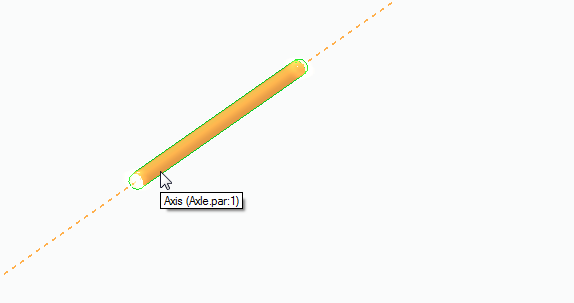
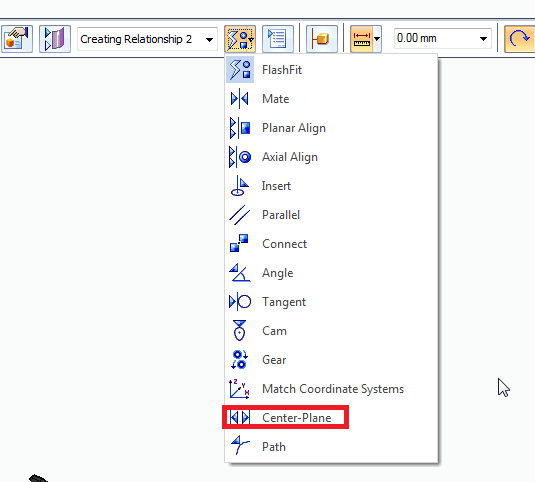
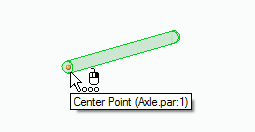
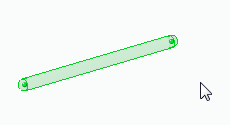
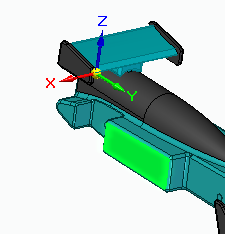
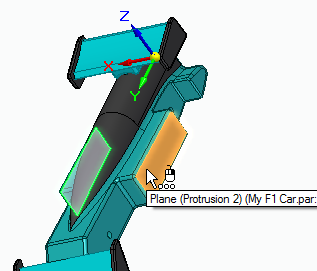
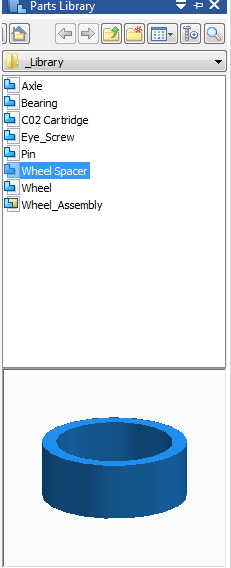
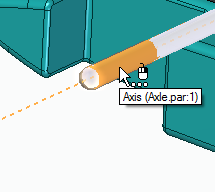
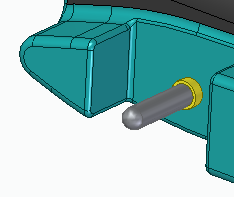
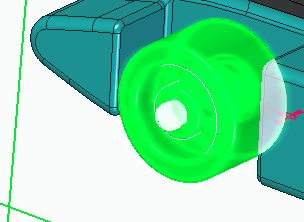
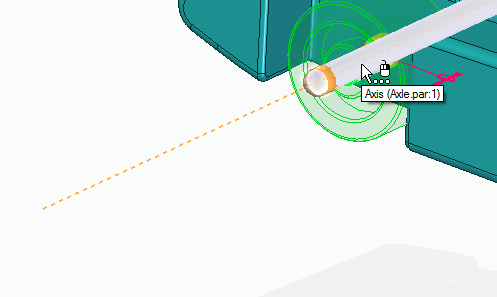
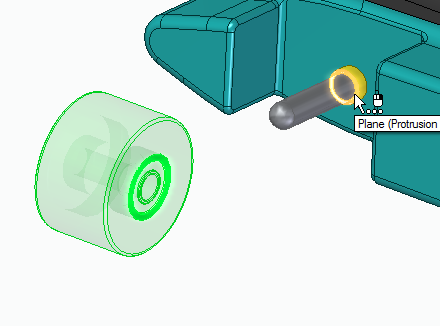
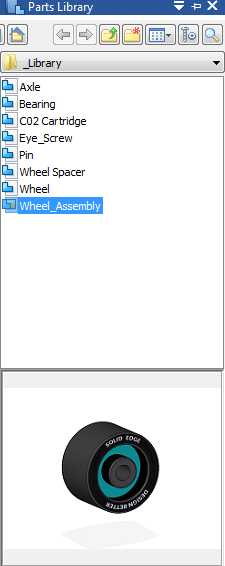
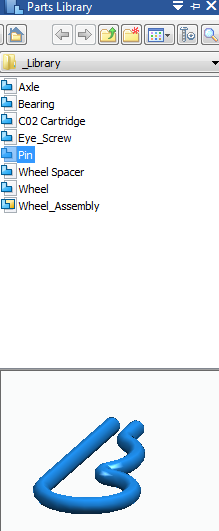
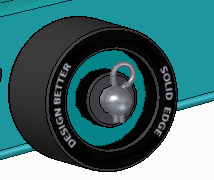
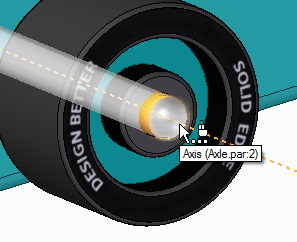
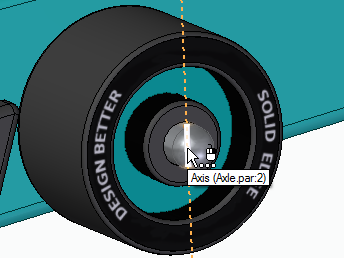
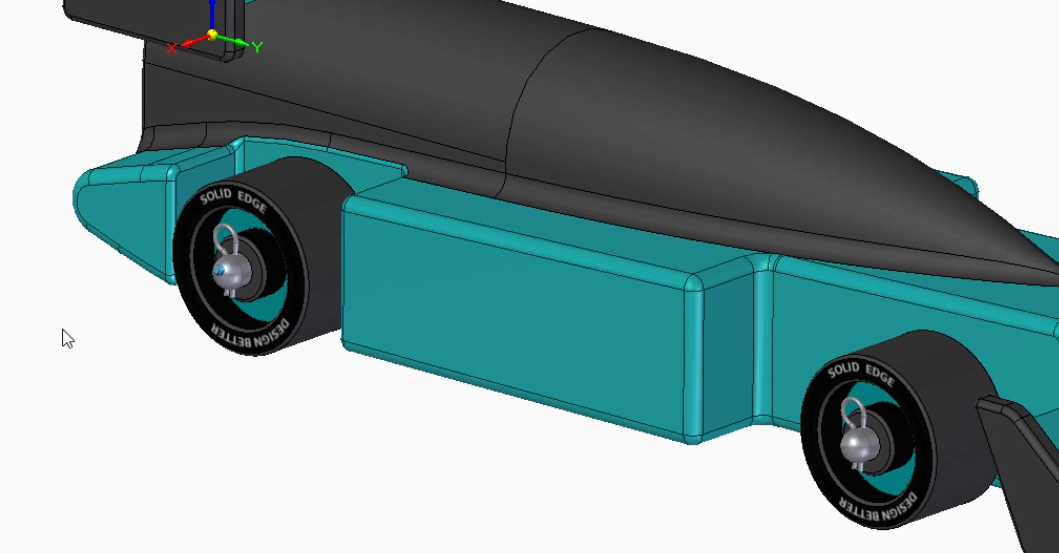
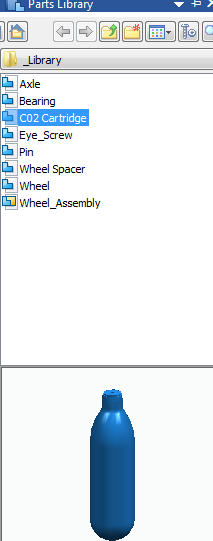
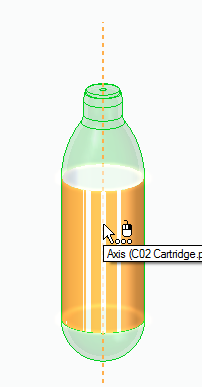
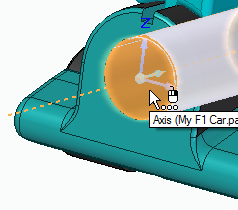
**F1 in Schools Tutorial Script - 04 Assemble**

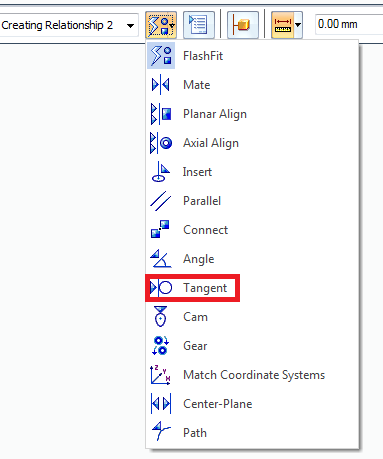
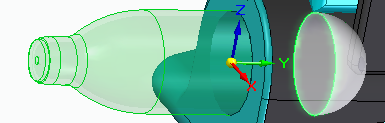
* Start by opening the previously made F1 Body design assembly. (My\_F1\_Car\_Assembly.asm)
* Expand the Parts Library from the fly-out menus.
  + Navigate to the folder ..\F1\_in\_Schools\\_Library
* Click and drag the axle from the library into working space.
  + Align the centerline of the axle to the rear hole in the car body.
  + For cylindrical object, automatic axial alignment is created.

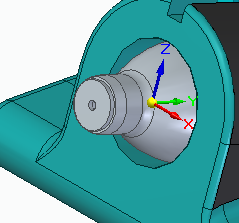


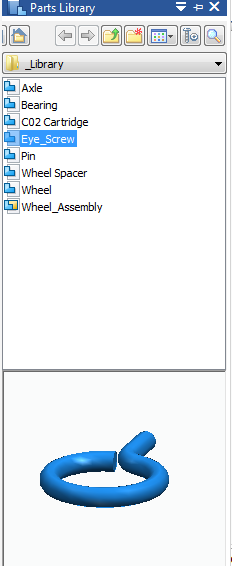
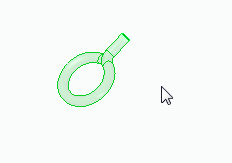
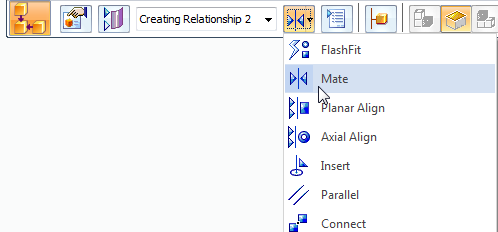
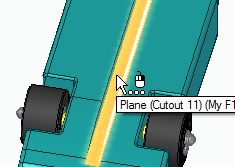
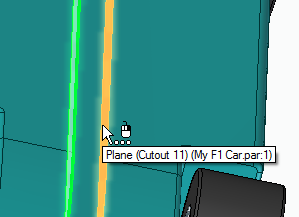
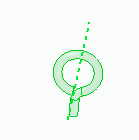
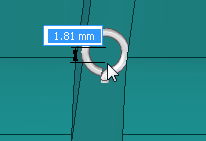
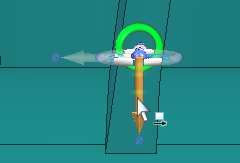
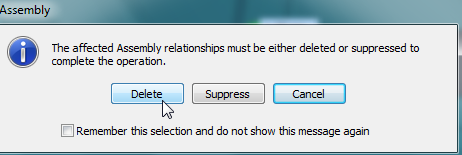
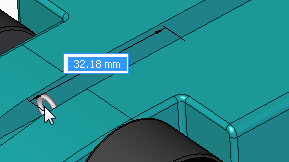
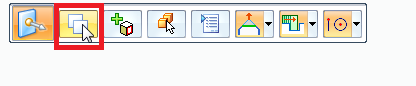
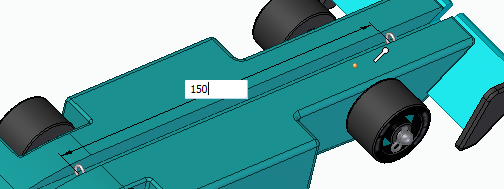


* For the second relationship, select the center plane relationship from the drop down menu.
  + In the Quick bar, be sure the option is set to Double.
  + C:\Users\stainbro\AppData\Local\Temp\SNAGHTML505e6cb.PNGSelect the two end center points of the axle and   
    then two side faces of the car body.
  + Press esc to exit the Assemble command.
* Drag another axle into the working space.
  + You can drag the axle from Parts Library or click and drag from Pathfinder to make another copy of the axle.
* For aligning the front axle, repeat the same steps used for back axle.
* Click and drag the Wheel Spacer from the Parts Library to create space between the wheels and the car body.
  + Align the centerline of the spacer with the rear axle centerline.
  + Automatic centerline relationship is created by simply clicking on the rear axle.
  + Click on the car body face to create second relationship as shown in the picture.
  + Press esc to exit the assembly.
* Click and drag a Wheel Assembly from the Parts Library.
  + For the first relationship, mate the Wheel to the outer edge face of the spacer.
  + For the second relationship, align using the centerline of the spacer.
* Repeat the previous two steps to assemble the remaining three spacers and wheels.
* Click and drag a Pin from the Parts Library.
  + For first relationship, align using the centerline of pin and the hole in the axle
  + For second relationship, select the axle face adjacent to the wheel.
  + Press esc to exit.

* Repeat the previous step to assemble the remaining three pins.
* Click and drag the CO2 cartridge from the Parts Library.
  + For first relationship, align using the centerline of CO2 cartridge and the centerline of the bore hole in the back of the car body.
  + For second relationship, select the tangent relationship from the drop down menu.
  + Select the spherical end of the cartridge and the inside of the bore hole.
  + Press esc to exit.





* Click and drag the eye screw from the part library.
  + For first relationship, select the mate relationship from the dropdown menu.
  + Mate flat face of the eye screw with the face of the slot.
  + For second relationship, select the center plane relationship from the drop down menu.
    - Set the option to Single.
  + Select the centerline of the eye screw and two lateral faces of the slots to align.
  + 2017-10-19 10_17_43-Solid Edge ST10 - Assembly - [My F1 Car Assembly .asm].pngPress esc to exit.
* Click on the eye screw to select it.
  + Orient the model by clicking the front side of the cube in lower right side of the screen.
* Use the steering wheel to bury to the screw into the car body.
  + Lower the screw into the body around 1.8 mm.
  + Click on the delete button in dialogue box which appears.
* Using the steering wheel to move the eye screw   
  behind the rear axle.
* Select the Move -Copy option to create a copy and drag the eye screw towards the front of the car.
  + Around 150 mm from the back eye screw
* This completes the car assembly.

