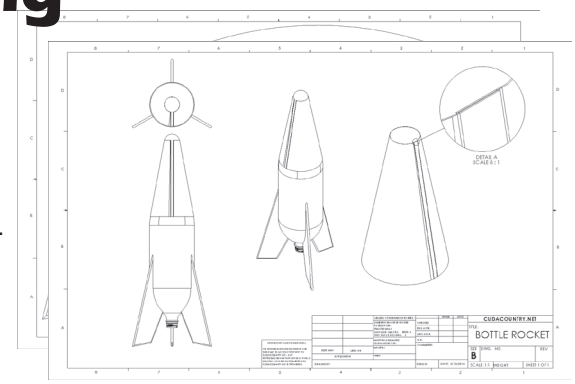
Chapter 6

Bottle Rocket Drawing

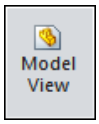


A. Insert Views.

Step 1. Click File Menu > New, click **Drawing Metric** and OK.

Step 2. Click **View Layout** 

on the Command Manager toolbar.

Step 3. Click **Model View** 

on the View Layout toolbar.

Step 4. Click **Browse** in the Property Manager.

Step 5. Select your **Bottle Rocket Assembly** file and click Open.

Step 6. In the Property Manager:
under Orientation, **Fig. 1**.
click **Right** 
check **Preview**
under Scale
select **Use custom scale**
select **User Defined**
key-in **1:3** for scale

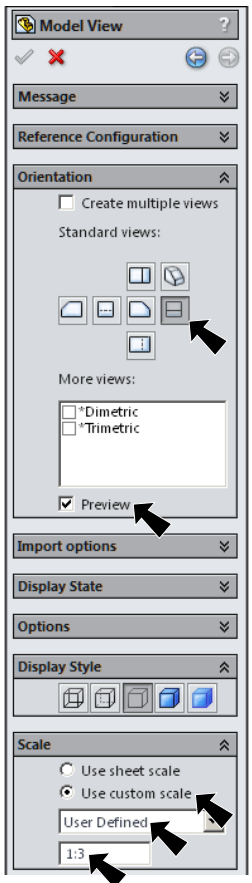


Fig. 1

Step 7. Move the cursor into the graphics area. Align the bottom edge of the preview with the bottom border line and center between left border line and title block. Click to place as shown in **Fig. 2**.

Step 8. **Move cursor straight up**. Center preview between the front view you just placed and top border line. Click to place the top view as shown in **Fig. 3**.

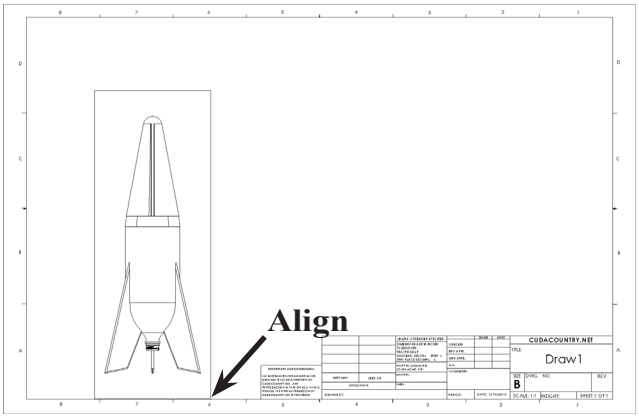


Fig. 2

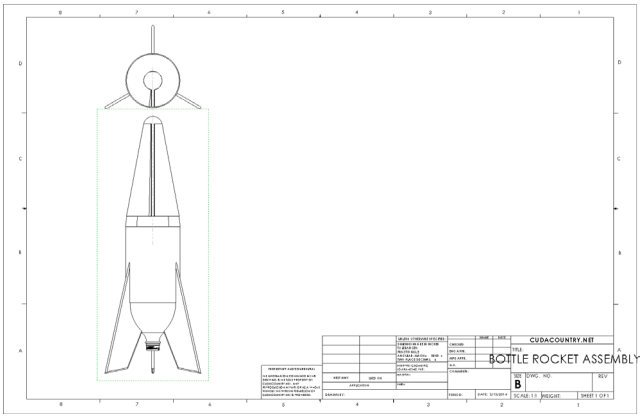


Fig. 3

Step 9. Move the cursor to the upper right until Isometric view is displayed and click to place Isometric view, **Fig. 4**.

Step 10. Click OK in the Property Manager.

Step 11. Grab any geometry of the Isometric view and move to center between top border line and title block, **Fig. 5**. Click OK in the Property Manager.

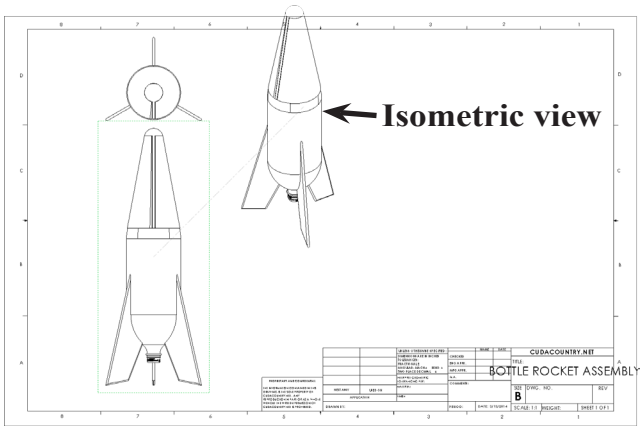


Fig. 4

B. Save as "BOTTLE ROCKET".

Step 1. Click File Menu > Save As.

Step 2. Key-in **BOTTLE ROCKET** for the filename and press ENTER.

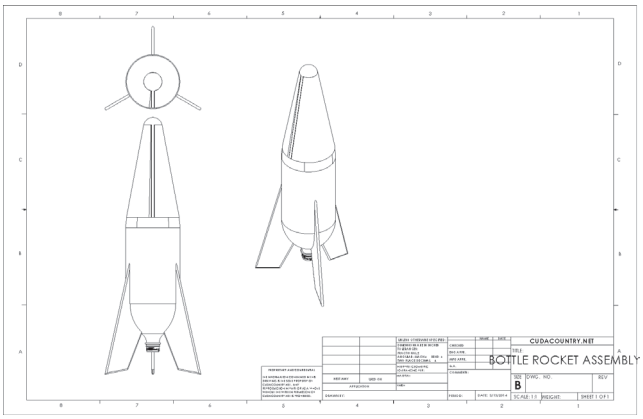
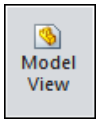


Fig. 5

C. Insert Cone Isometric View.

Step 1. Click **View Layout** 

on the Command Manager toolbar.

Step 2. Click **Model View** 

on the View Layout toolbar.

Step 3. Click **Browse** in the Property Manager, select your **CONE** file and Open.

Step 4. In the Property Manager,
under Orientation, **Fig. 6**
click **Isometric** 
check **Preview**
under Scale
select **Use custom scale** and set scale to **2:3**.

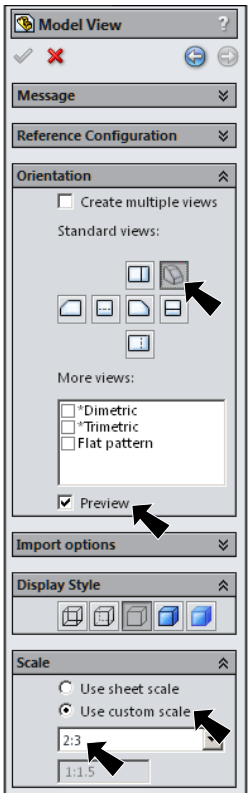


Fig. 6

Step 5. Move the cursor into the graphic area and click to place the Cone view as shown in **Fig. 7**.

Step 6. Click OK in the Property Manager.

Step 7. Save. Use **Ctrl-S**.

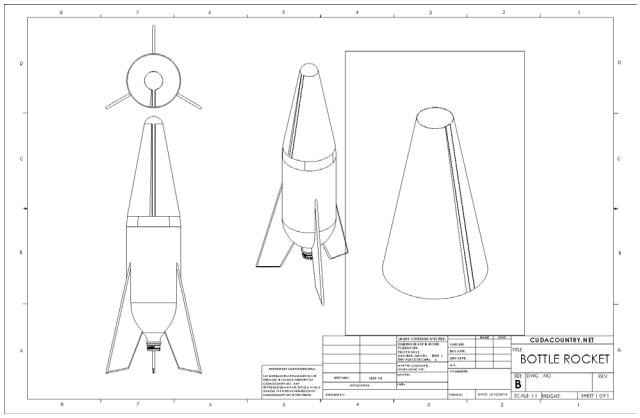


Fig. 7

D. Insert Detail View of Cone Bends.

Step 1. Click **Detail View** 

on the View Layout toolbar.

Step 2. Zoom in around **top of Cone**, **Fig. 8**. To zoom, place the cursor over the top of Cone area and spin the wheel on mouse back. While spinning the wheel keep cursor on the area where you want to zoom.

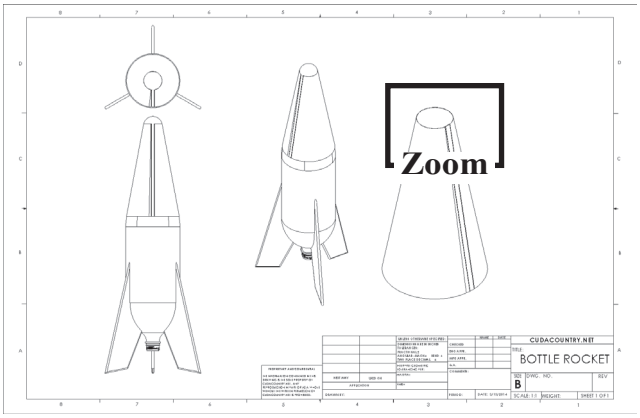


Fig. 8

Step 3. Draw a detail view circle starting at the top edge of sheet metal bends in the Cone view, **Fig. 9**.

Step 4. Click Zoom to Fit  (**F**) on the View toolbar.

Step 5. Click to place the detail view as positioned in **Fig. 10**.

Step 6. In the Property Manager,
under Detail Circle, **Fig. 11**
Style **Connected**
under Scale
select **Use custom scale** and set scale to **8:1**
click OK  .

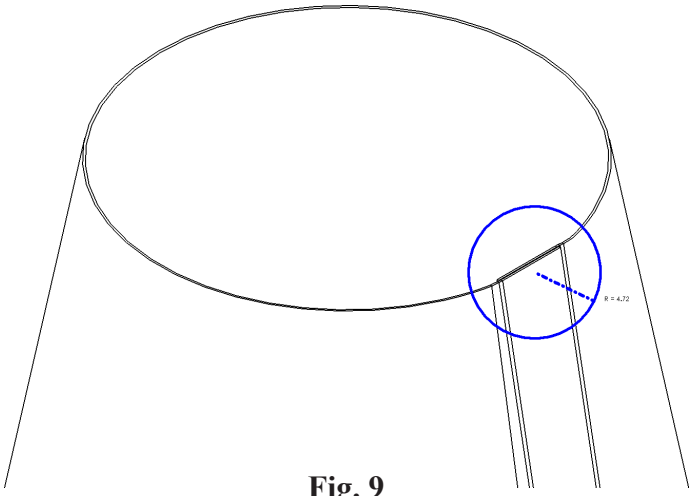


Fig. 9

Step 7. Save. Use **Ctrl-S**.

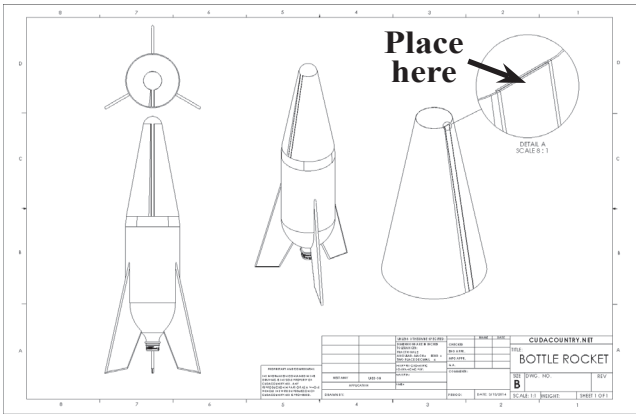


Fig. 10

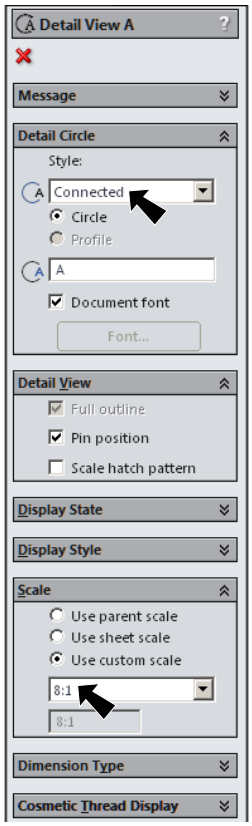


Fig. 11

E. Insert Sheet 2.

Step 1. **Right click Sheet1** tab 

at the lower left of the graphics area and click **Add Sheet** from menu, **Fig. 12**.

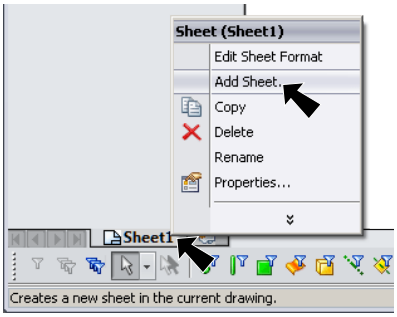
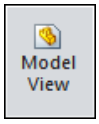


Fig. 12

F. Insert Fin Front View.

Step 1. Click **View Layout** 

on the Command Manager toolbar.

Step 2. Click **Model View** 

on the View Layout toolbar.

Step 3. Click **Browse** in the Property Manager, select your **Fin** file and Open.

Step 4. In the Property Manager,
under Orientation, **Fig. 13**
click **Front** 
check **Preview**
under Scale
select **Use custom scale** and set scale to **1:1**.

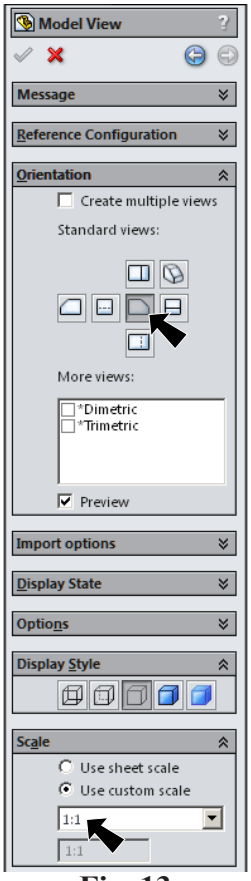


Fig. 13

Step 5. Move the cursor into the graphic area and place Fin aligned to bottom left corner of border lines, **Fig. 14**.

Step 6. Click OK  in the Property Manager.

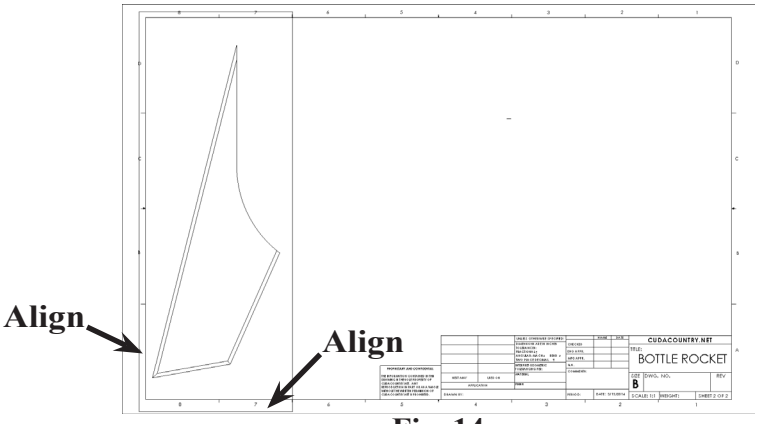
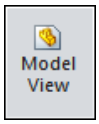


Fig. 14

G. Insert Cone Flatten View.

Step 1. Click **Model View** 

on the View Layout toolbar.

Step 2. Click **Browse** in the Property Manager, select your **CONE** file and Open.

Step 3. In the Property Manager set,
under Orientation More Views
check **Flat Pattern**, **Fig. 15**
check **Preview**
under Flat Pattern Display
Angle  **57º (237º)**
under Scale
Scale 1:1

Step 4. Move the cursor into the graphic area and click to place the Cone flat pattern view as shown in **Fig. 16**.

Step 5. Click OK  in the Property Manager.

Step 6. Save. Use **Ctrl-S**.

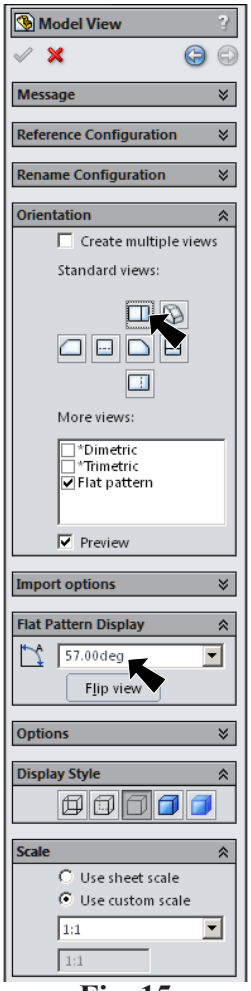


Fig. 15

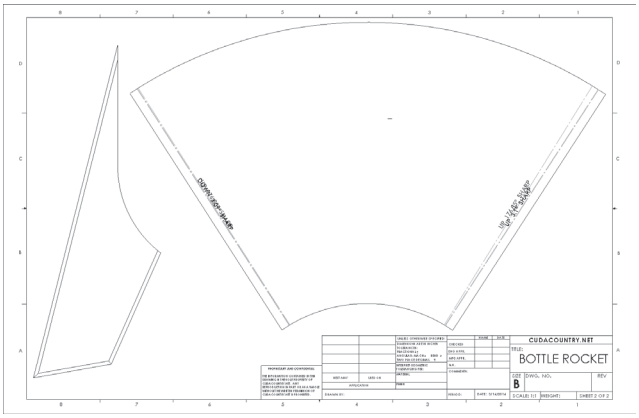


Fig. 16

H. Add Your Name and Period to Title Block.

Step 1. **Click Sheet1** tab 

to return to Sheet1, **Fig. 17**.

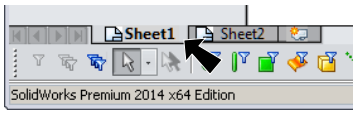


Fig. 17

Step 2. Use the **Zoom to Area**  in the View toolbar to drag a zoom window around the **DRAWN BY and PERIOD** in the title block, **Fig. 18**.

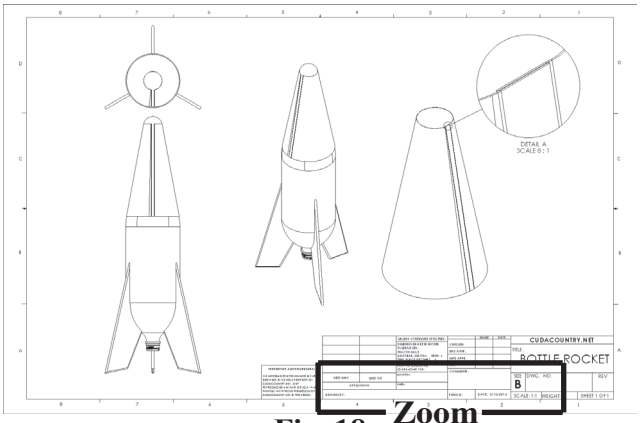
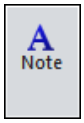


Fig. 18

Step 3. Click **Note** 

on the Annotation toolbar.

Step 4. Click just to the right of DRAWN BY:, **Fig. 19**.

Step 5. Lock the Caps and key-in **your first and last names**, **Fig. 19**.

Step 6. Click OK  in the Property Manager.

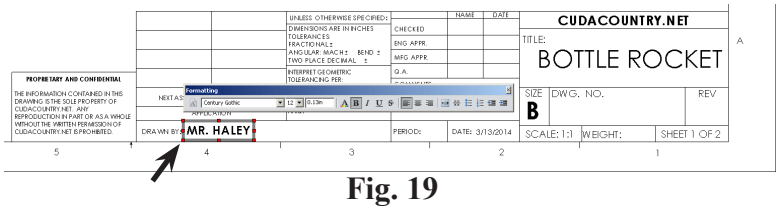
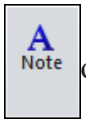


Fig. 19

Step 7. Click **Note** 

on the Annotation toolbar.

Step 8. Click just to the right of PERIOD:, click and key-in **your Period number**, **Fig. 20**.

Step 9. Click OK  in the Property Manager.

Step 10. Save. Use **Ctrl-S**.

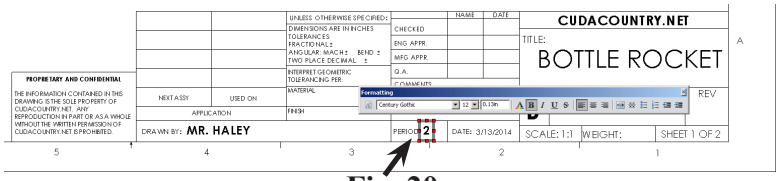


Fig. 20