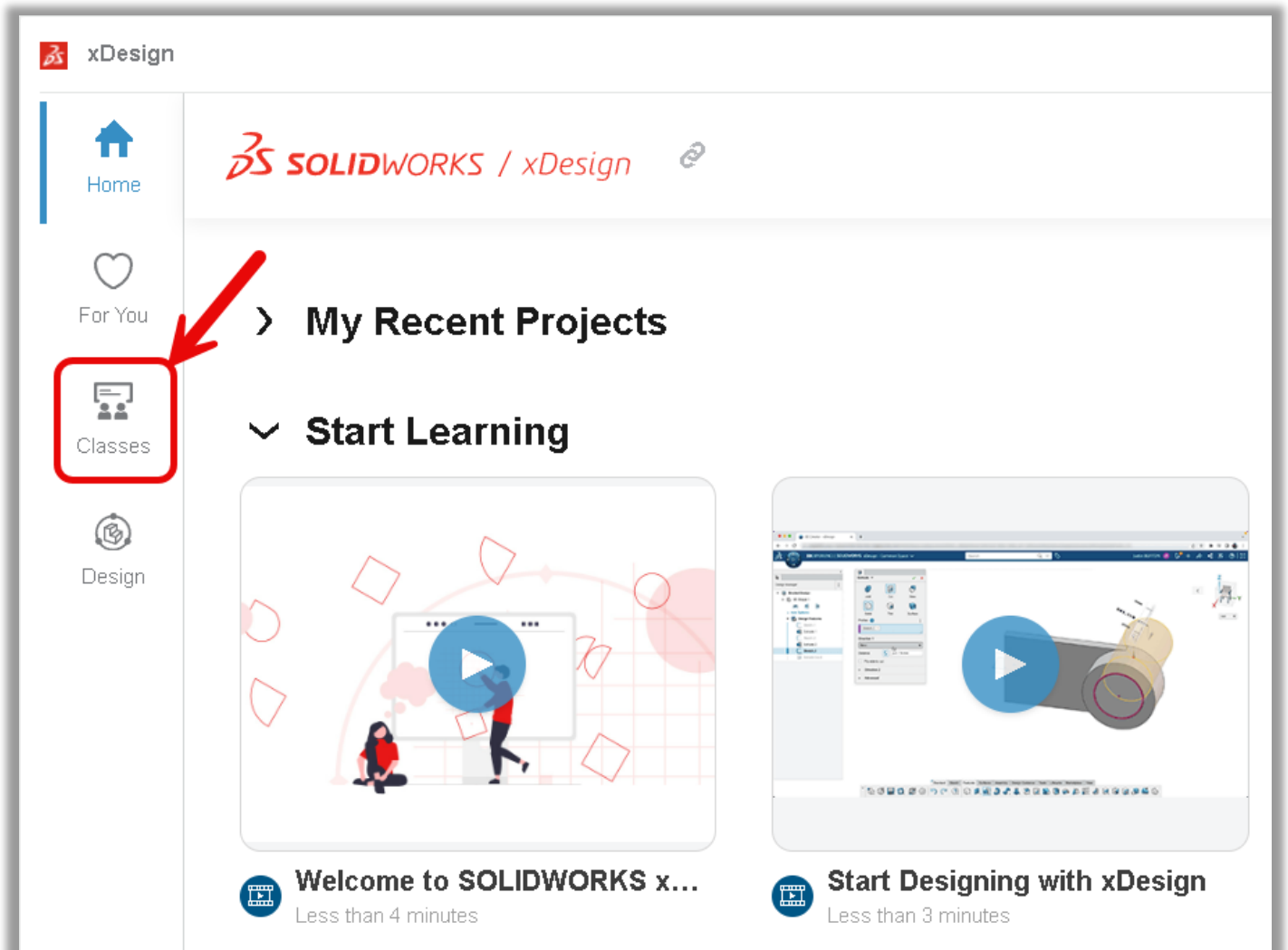
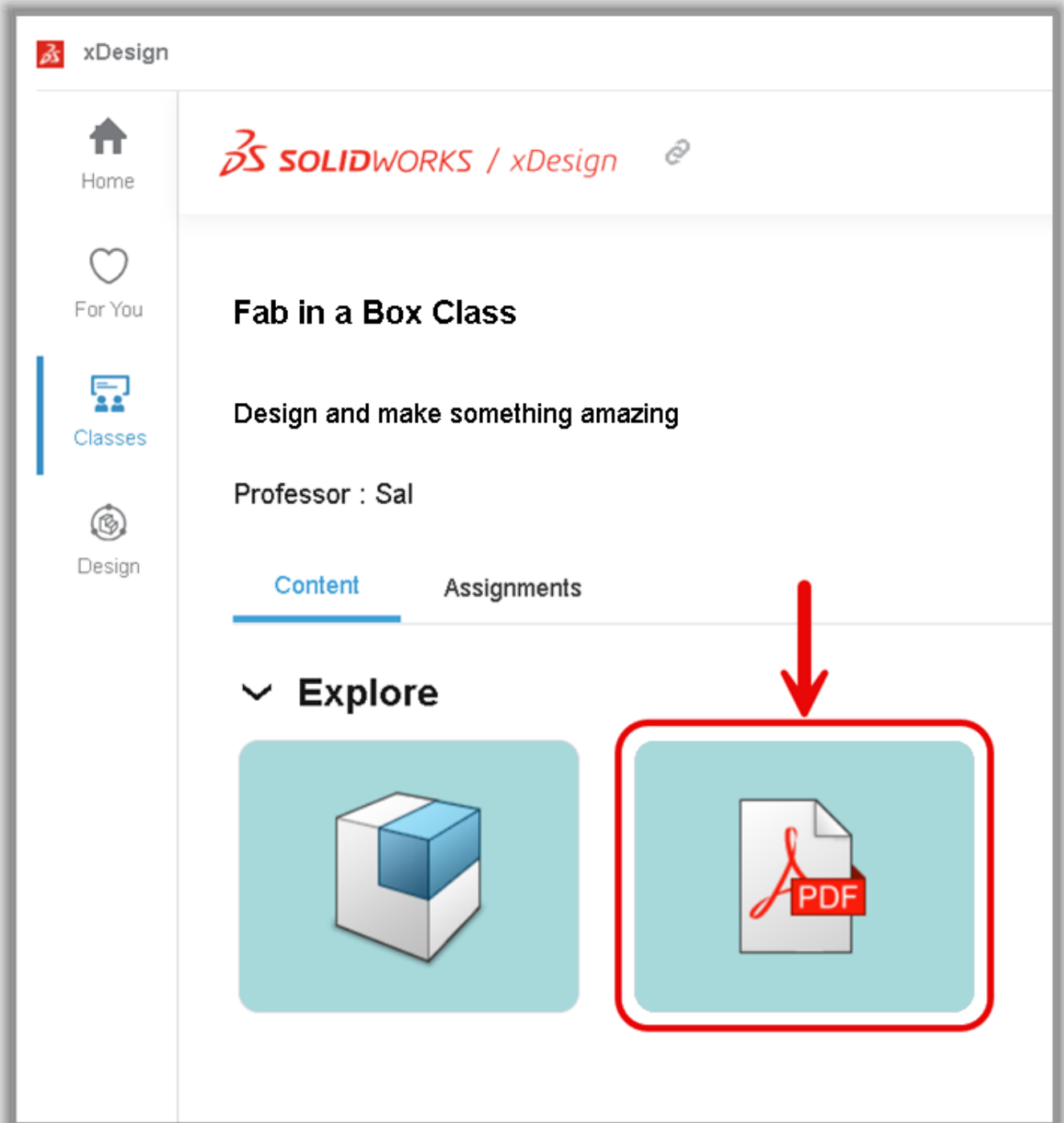


Design and fabricate your own custom pinwheel.

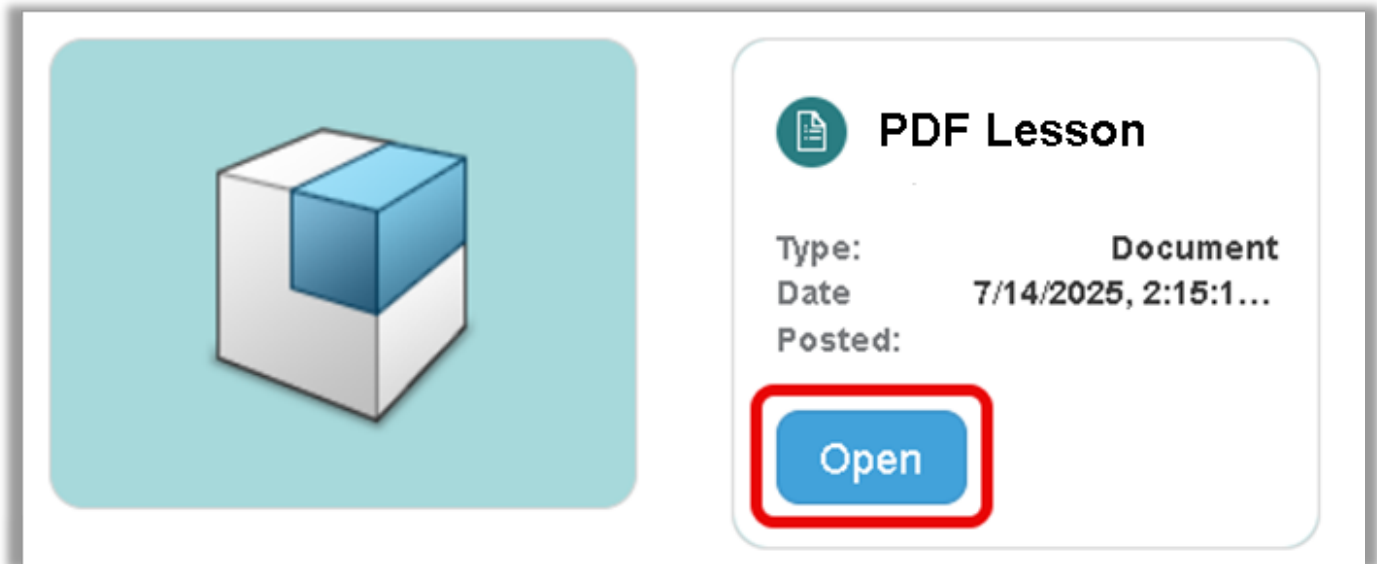
1. Click the **Classes** tab



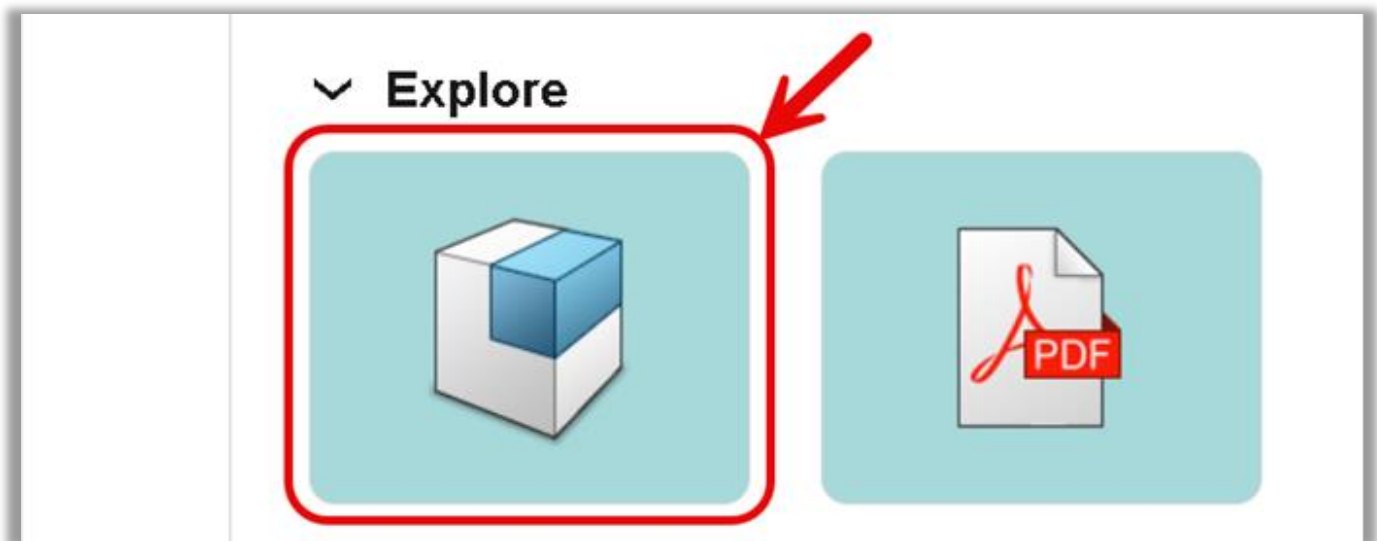
2. Hover over the PDF tile



3. Click **OPEN**



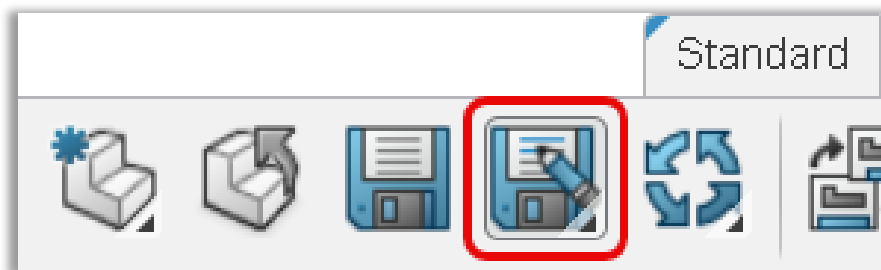
4. Hover over the “Pinwheels - Custom Designs & Decorations” tile



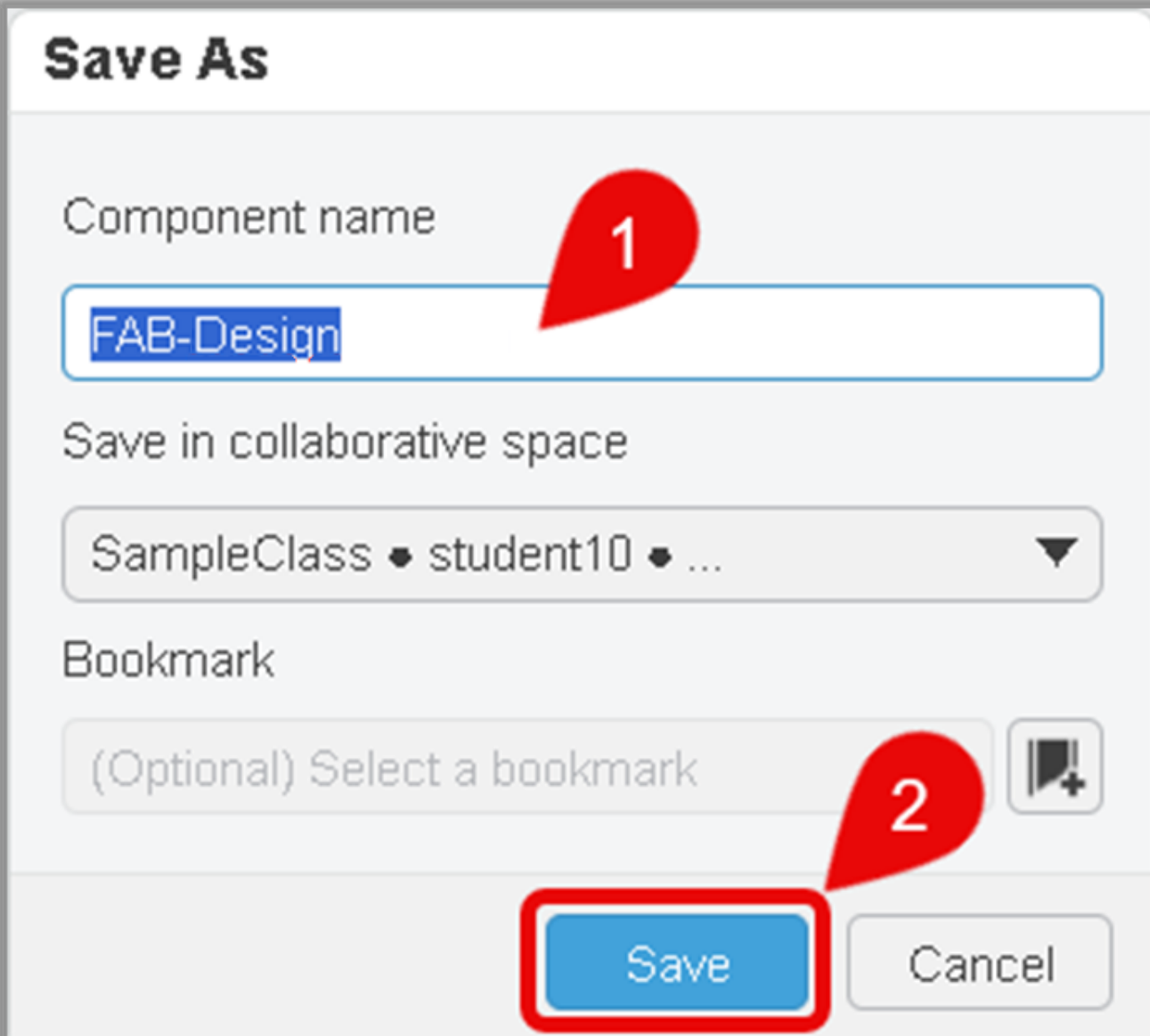
5. Click **OPEN**



6. Click **Save As** on the Standard tab of the Action Bar



7. [1] Type a name for your design, then [2] click **Save**



Save As

Component name

FAB-Design

Save in collaborative space

SampleClass • student10 • ...

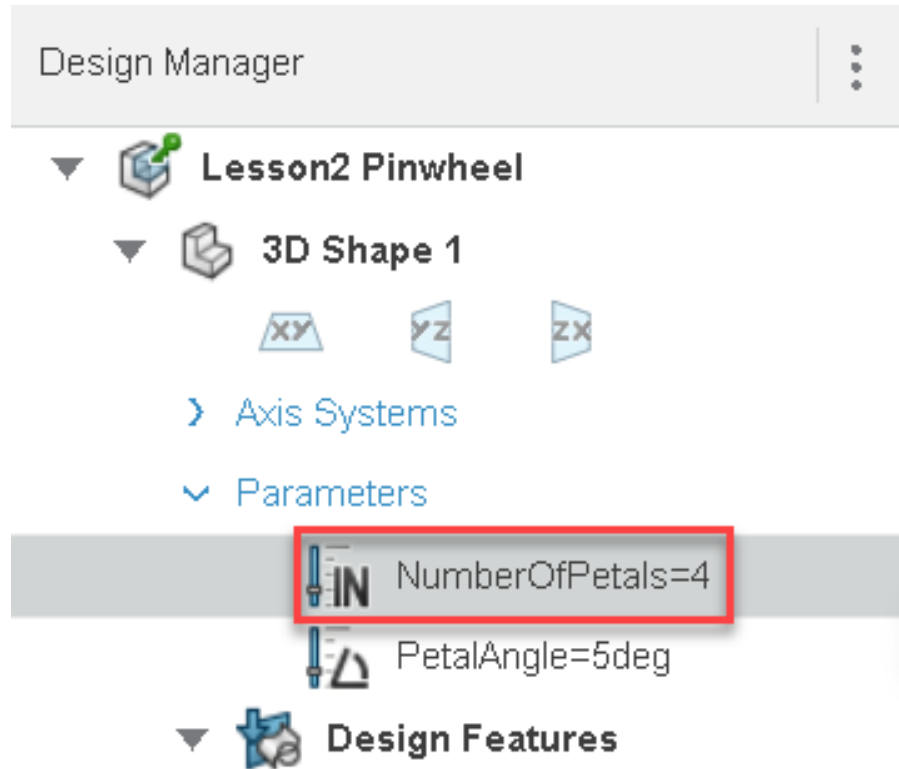
Bookmark

(Optional) Select a bookmark

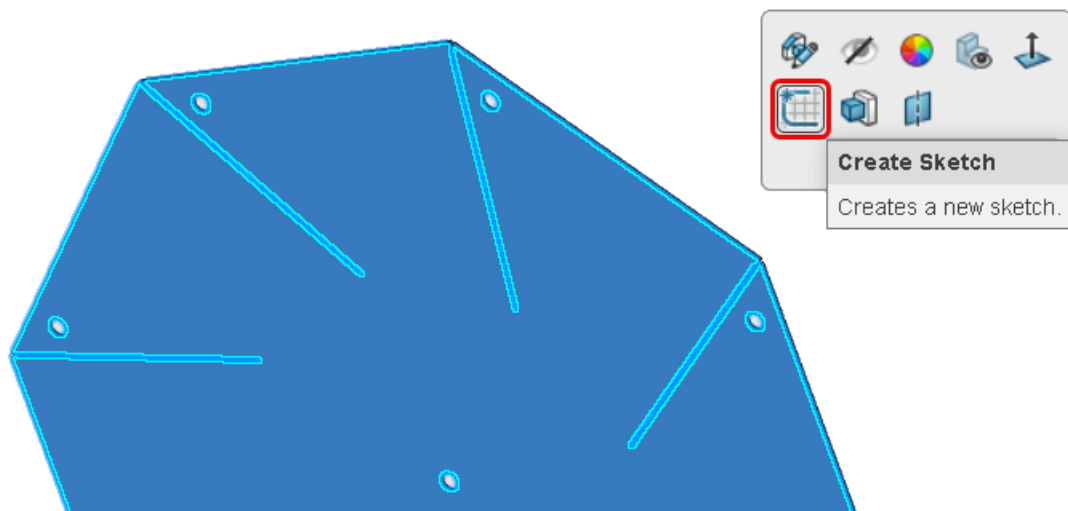
Save Cancel

The image shows a 'Save As' dialog box. A red teardrop callout with the number '1' points to the text input field containing 'FAB-Design'. Another red teardrop callout with the number '2' points to the 'Save' button, which is also highlighted with a red rectangular border. The dialog includes a 'Component name' label, a 'Save in collaborative space' section with a dropdown menu showing 'SampleClass • student10 • ...', and a 'Bookmark' section with a text input field and a bookmark icon.

8. Change the “NumberOfPetals” parameter and/or the “PetalAngle” parameter in the Design Manager to create the basic shape of your pinwheel

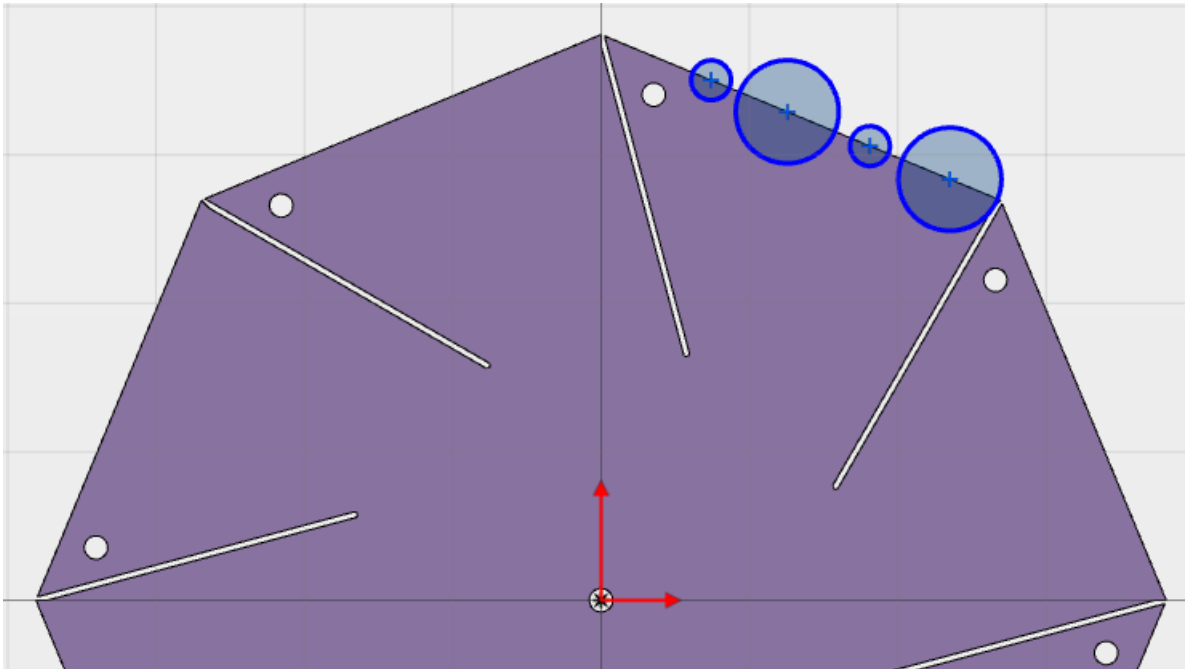


9. Select the large flat face of your pinwheel, then click **Create Sketch**

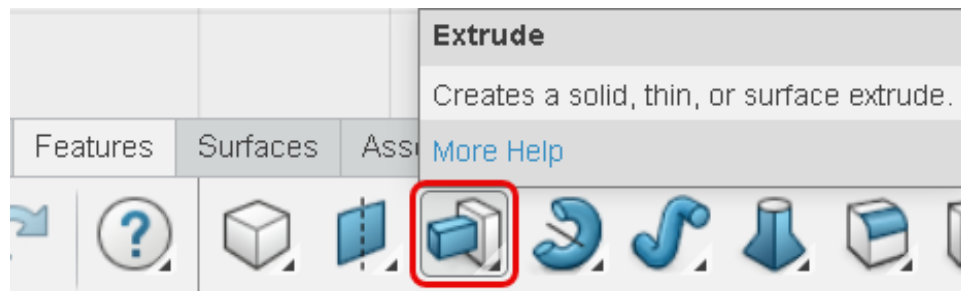


10. Draw any shape you would like to decorate the end of one pinwheel blade

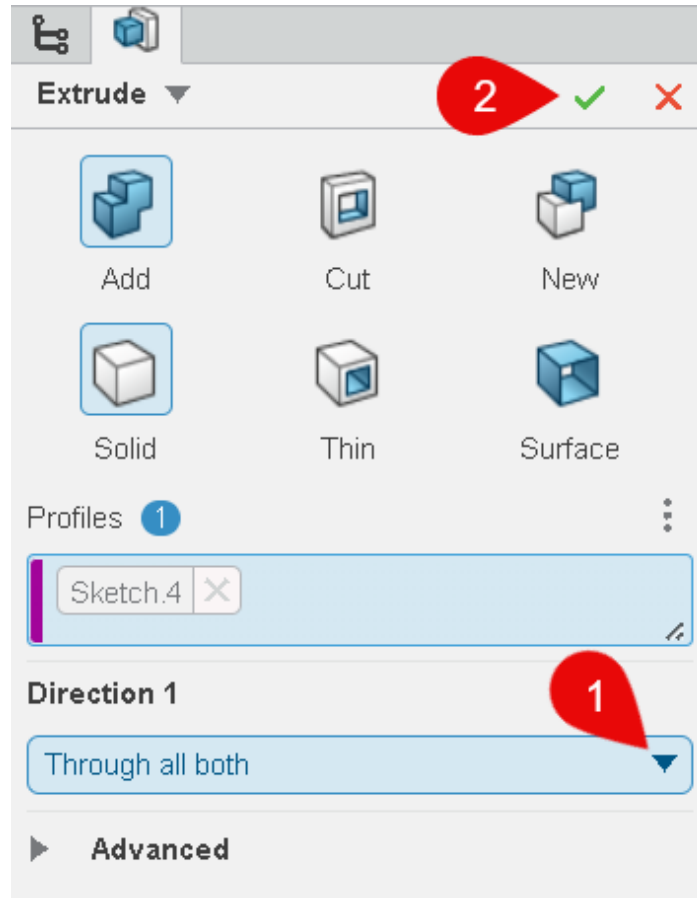
Sample Decoration



11. Click **Extrude** on the Features tab of the Action Bar



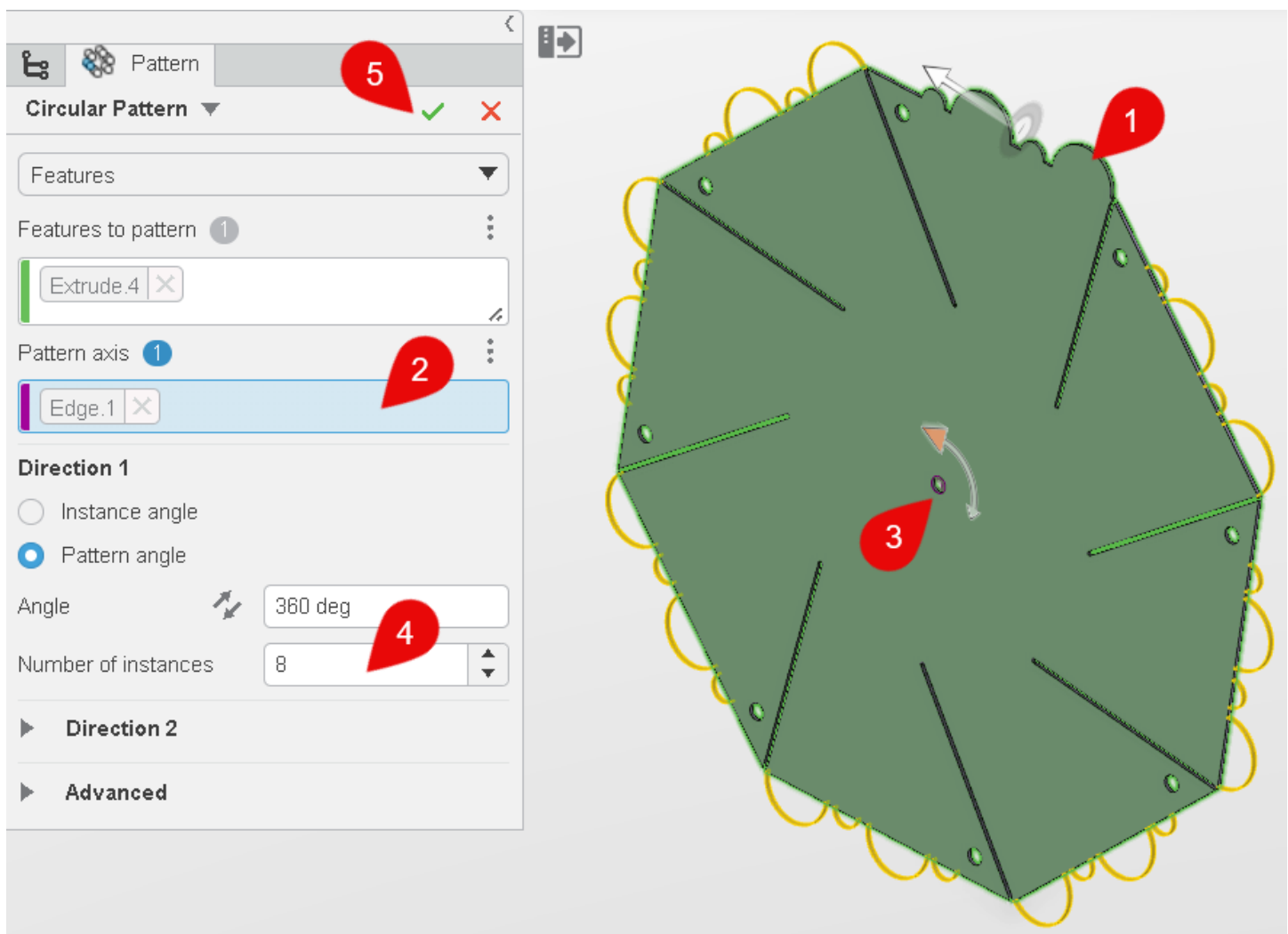
12. [1] Change the Direction 1 end condition to “Through all both”, then [2] click OK



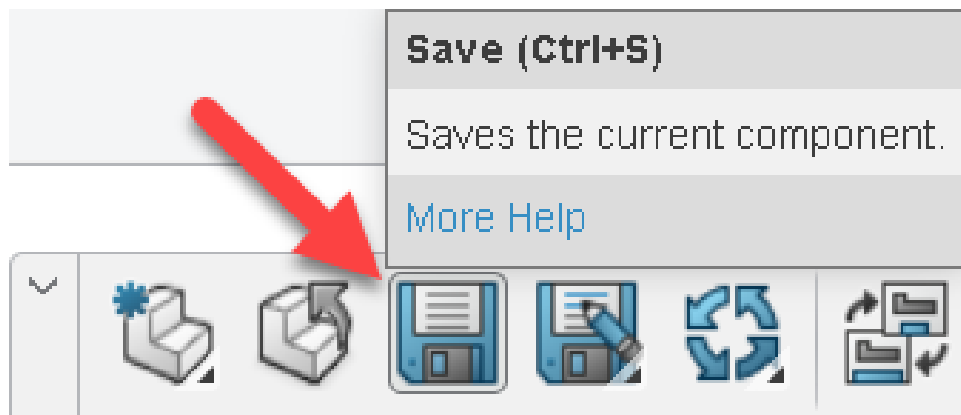
13. Select **Circular Pattern** from the flyout menu on the Features tab of the Action Bar



14. [1] Select a face of the extruded decoration you just created, [2] click in the “Pattern Axis” selection box to give it focus, [3] select the circular edge of the hole at the center of the pinwheel, [4] change the “Number of instances” to match the number of blades on your pinwheel, then [5] click OK



15. Repeat steps 9 through 14 to add more decorations to your pinwheel. When you get to step 12 you can set it to “Cut” to remove material and create different decorations on your pinwheel
16. Click “Save” on the Action Bar to save your pinwheel

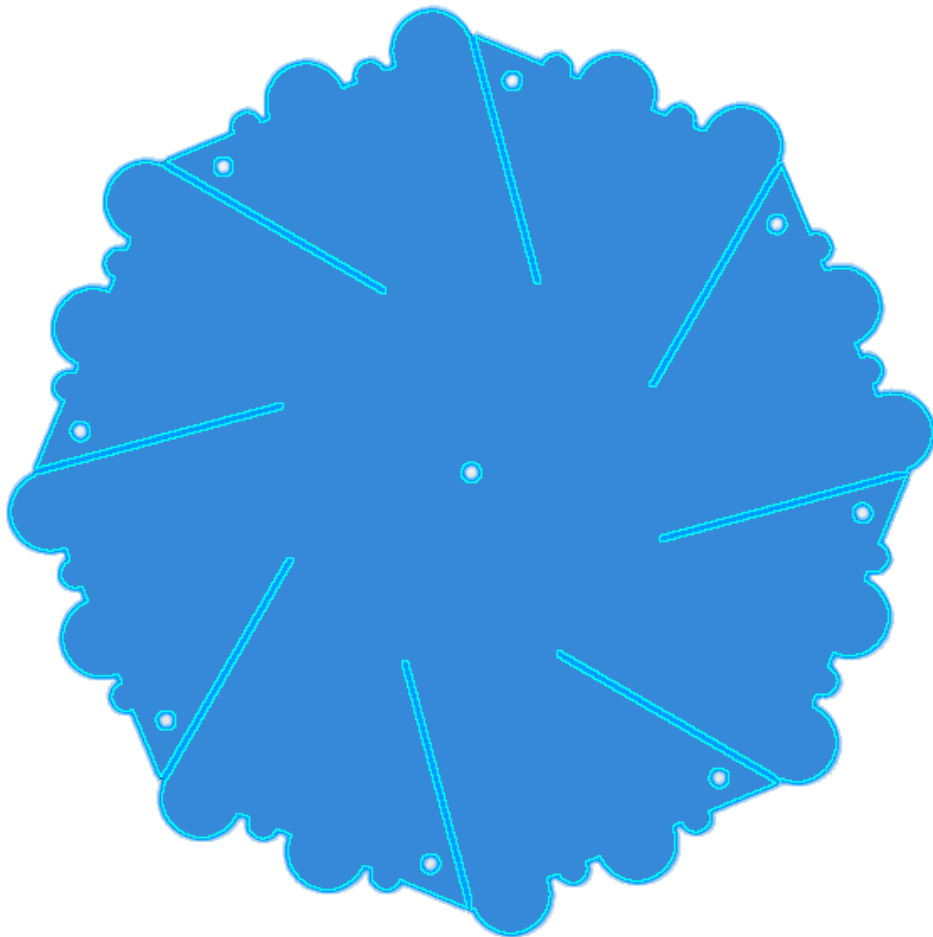


FABRICATE YOUR PINWHEEL

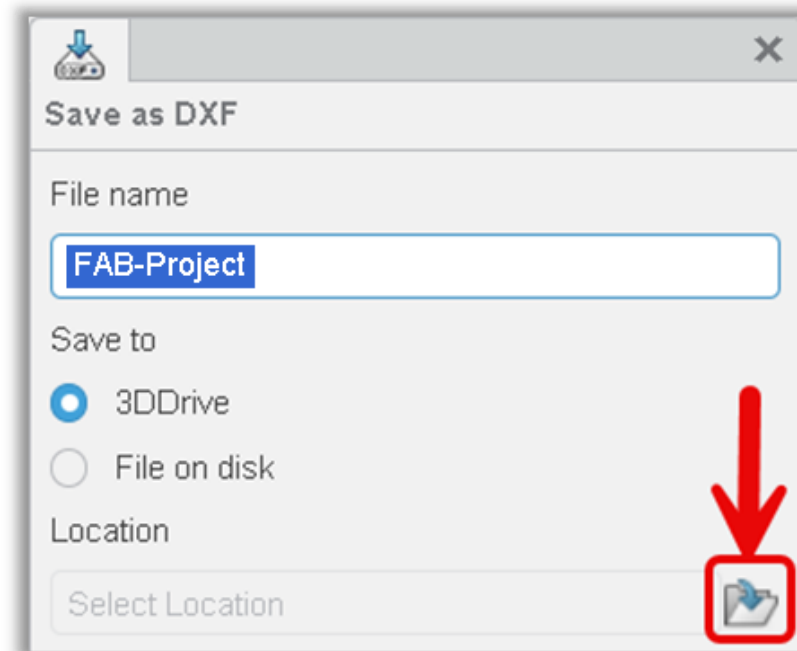
17. Click the **DXF** command on the Tools tab of the Action Bar



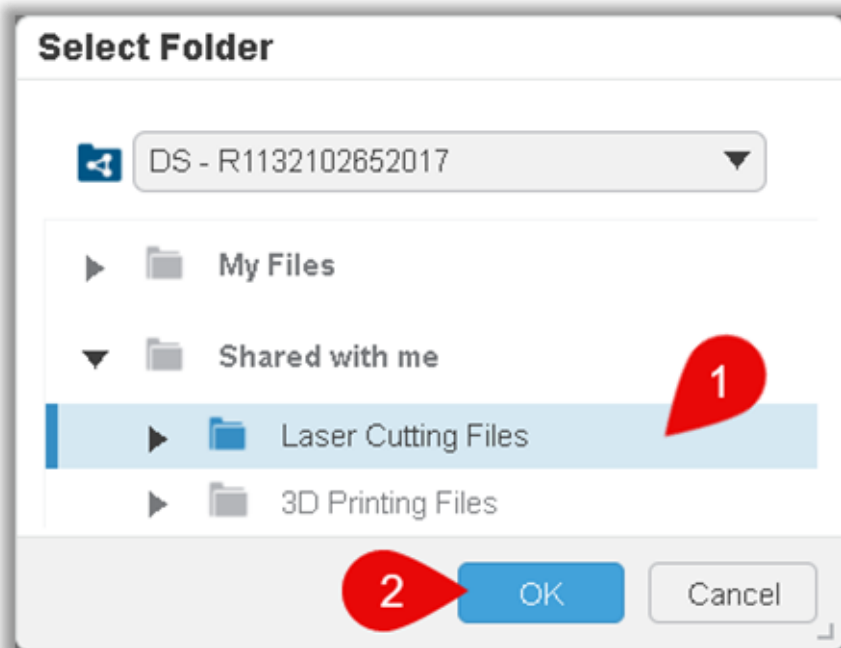
18. Select the large flat face of your pinwheel



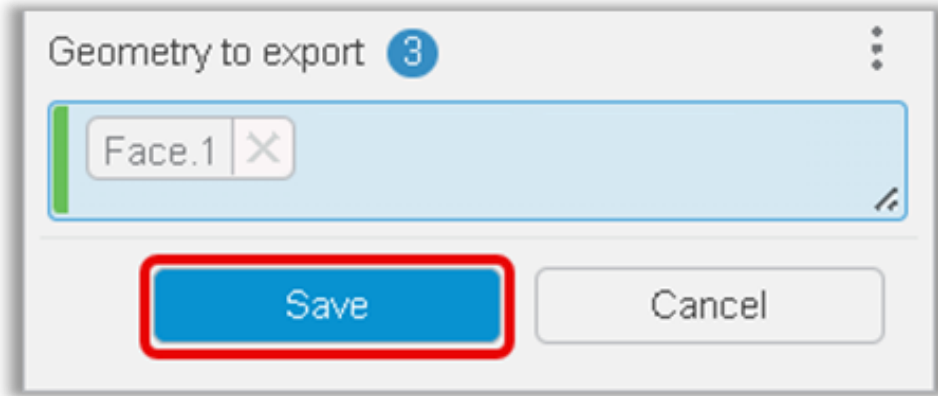
19. Click the Location folder button



20. [1] Select the folder your instructor told you to use to save your files, then [2] click **OK**



21. Click the **Save** button in the Save as DXF dialog



Congratulations!

You're ready to laser cut your pinwheel!

See your teacher for further instruction!