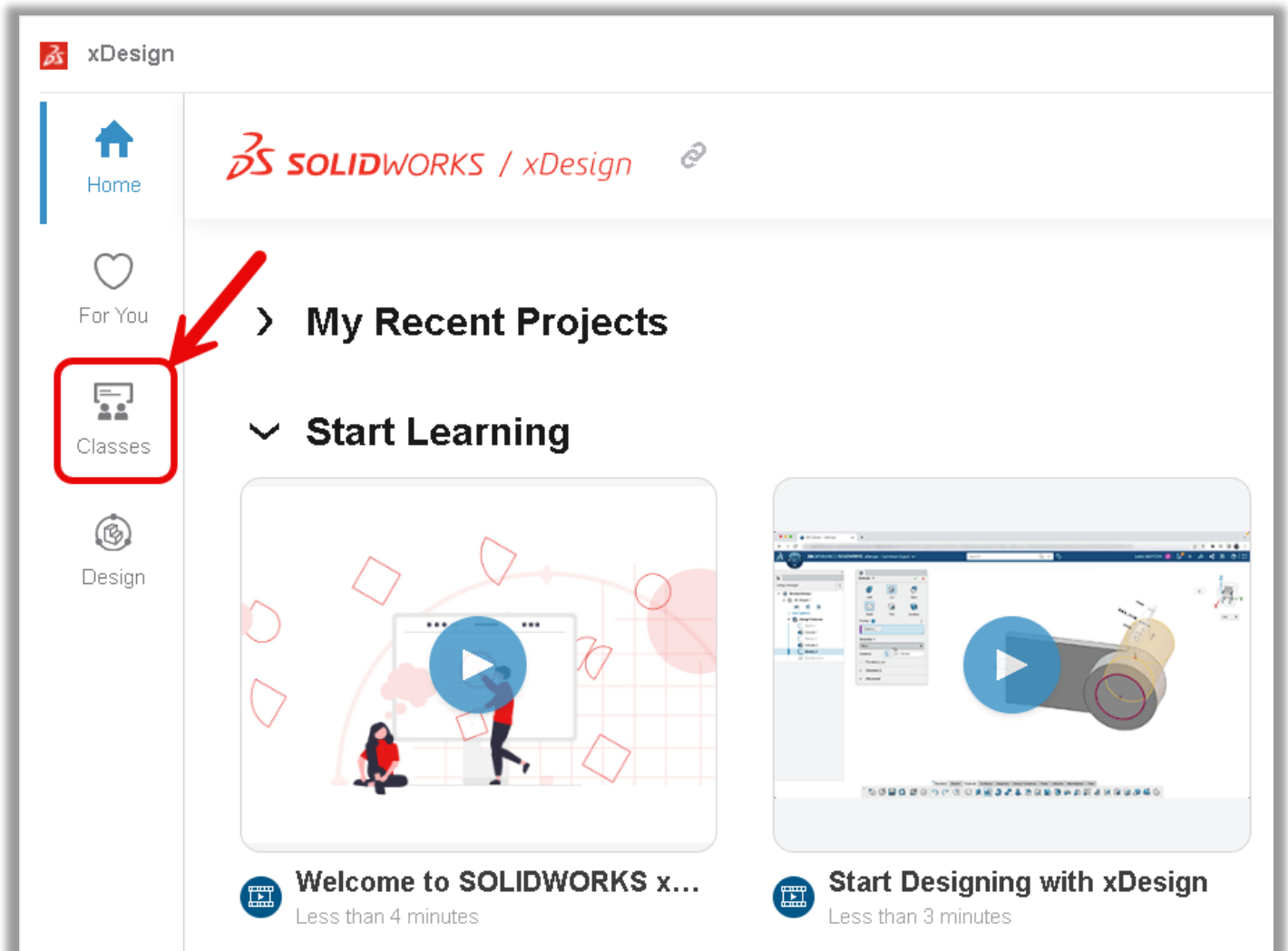
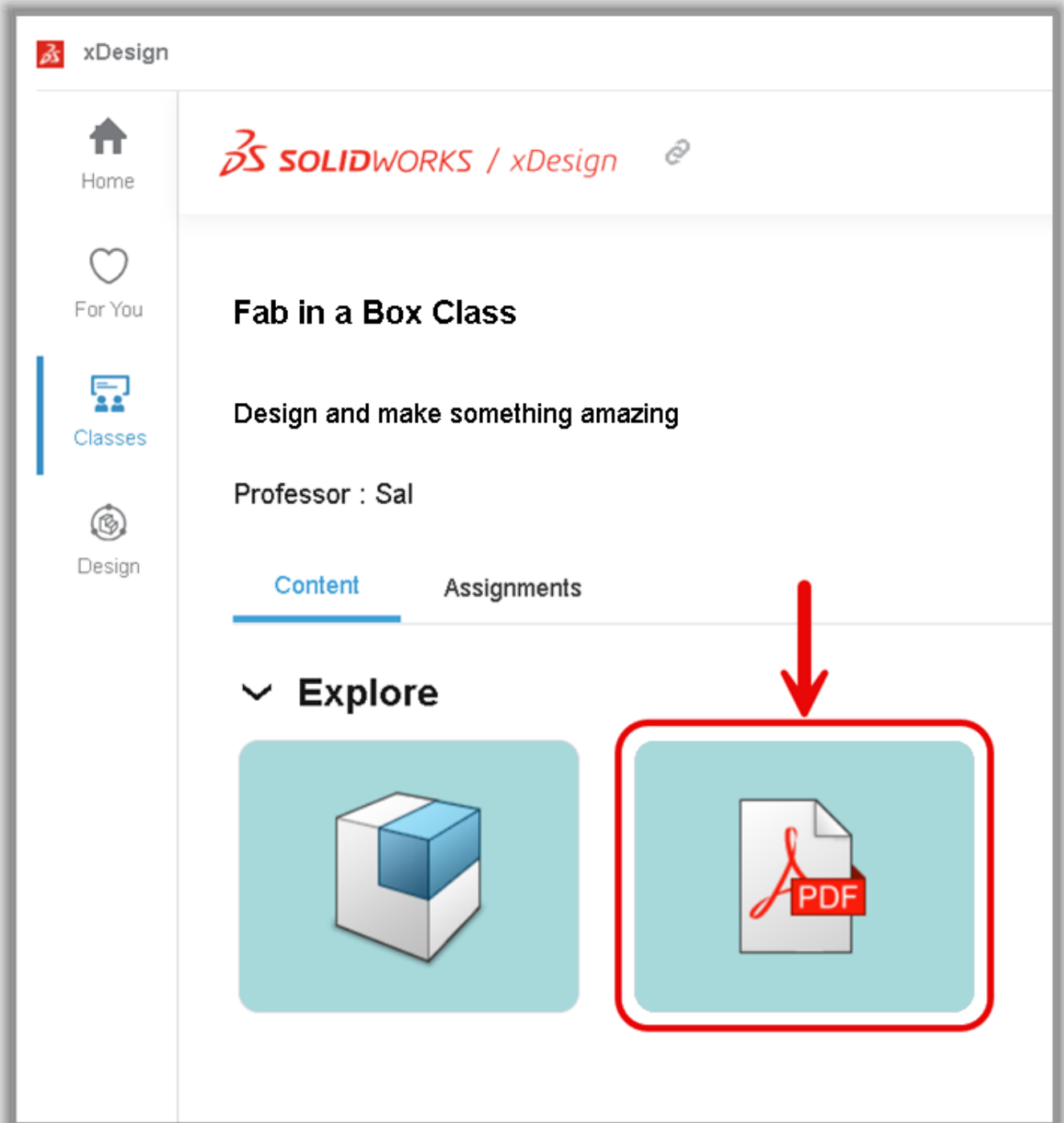


Design and fabricate your own custom invention kits.

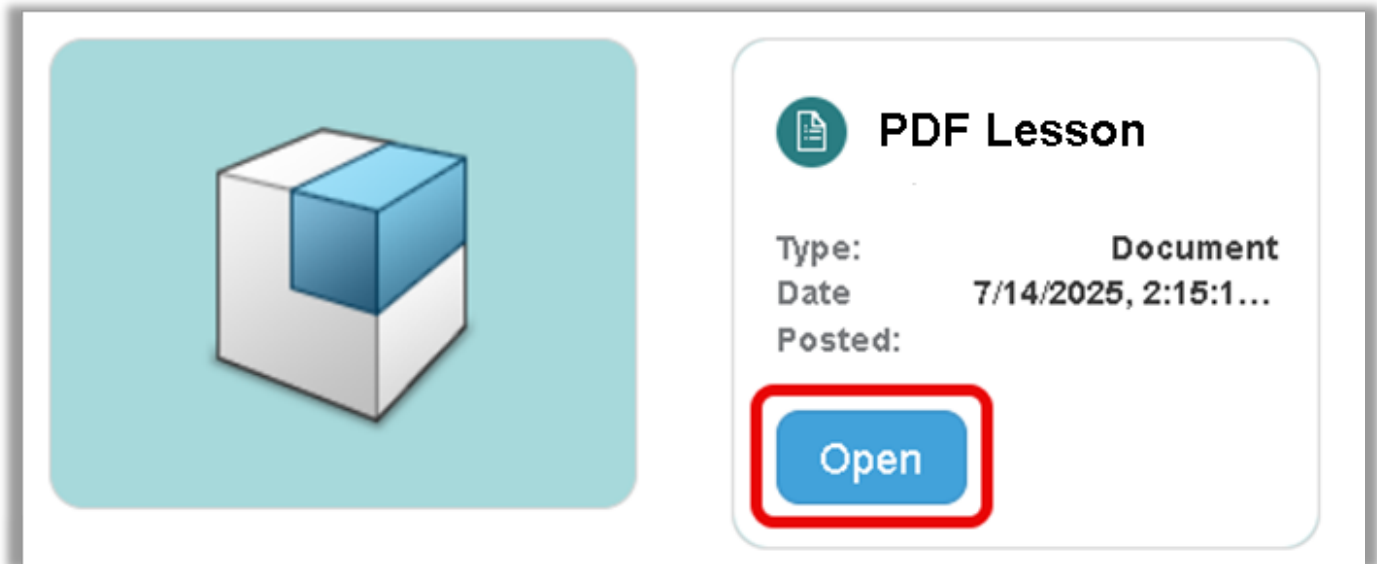
1. Click the **Classes** tab



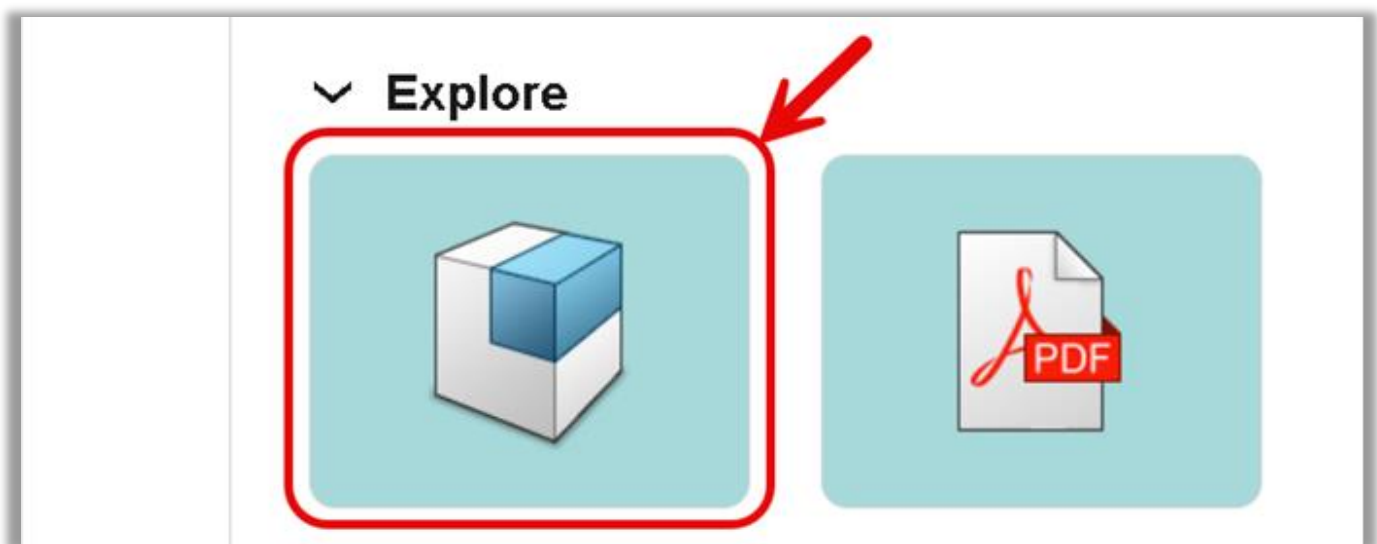
2. Hover over the PDF tile



3. Click **OPEN**



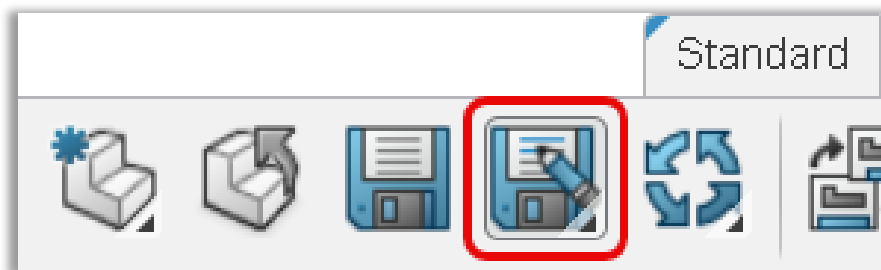
4. Hover over the “Invention Kits - Geometric” tile



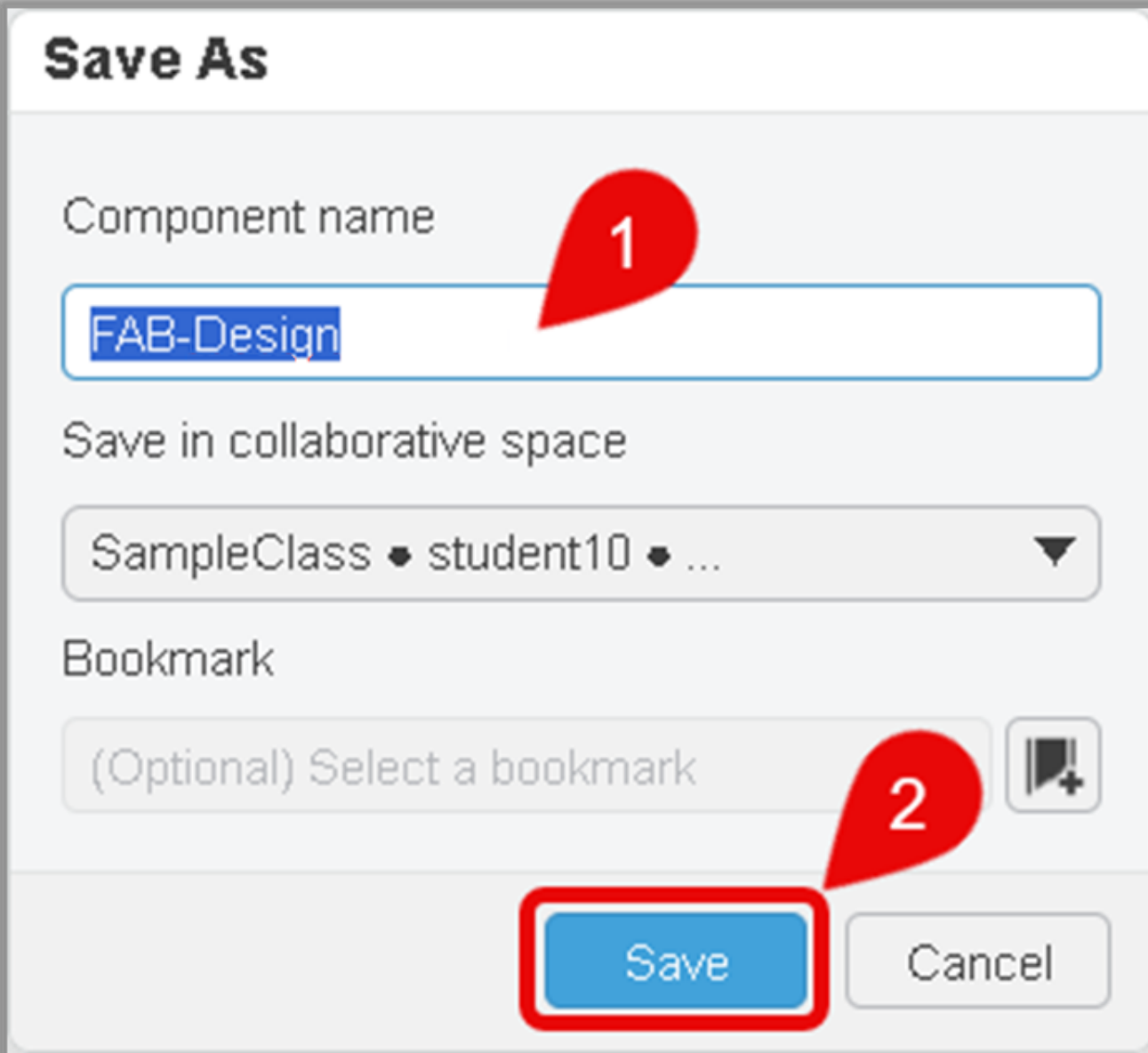
5. Click **OPEN**



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 • ...

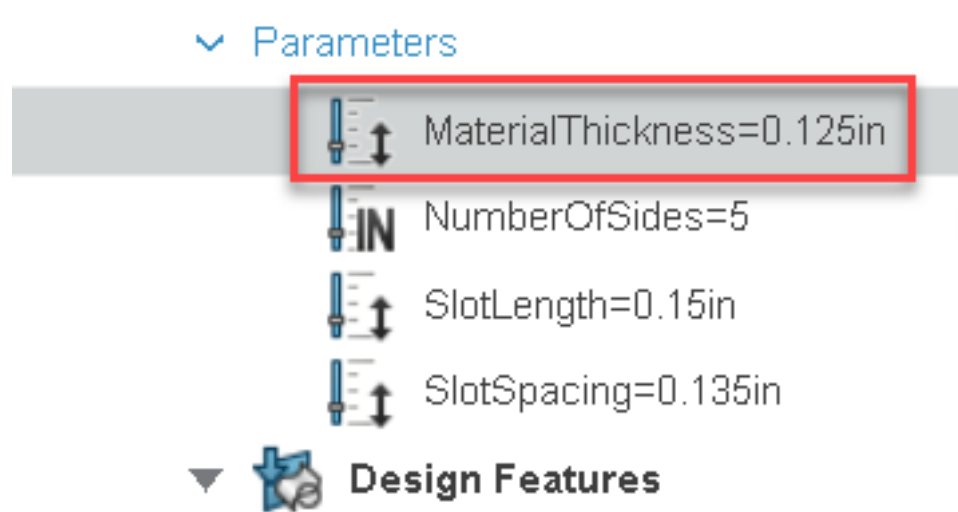
Bookmark

(Optional) Select a bookmark

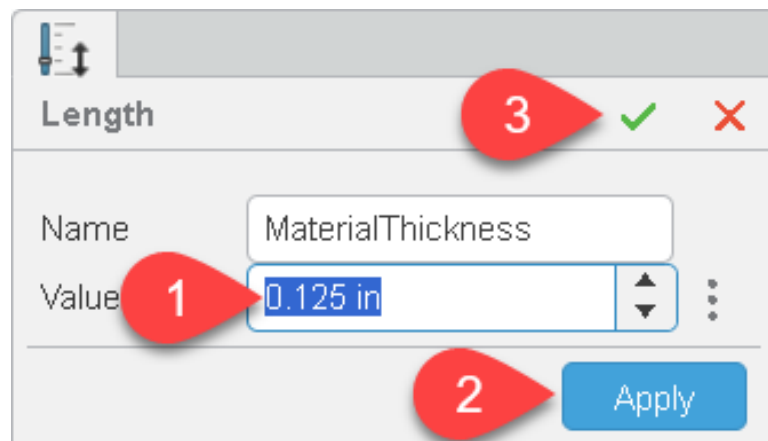
Save Cancel

The image shows a 'Save As' dialog box. A red teardrop callout with the number '1' points to the 'Component name' text field, which contains '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 'Bookmark' section with a text input field and a bookmark icon.

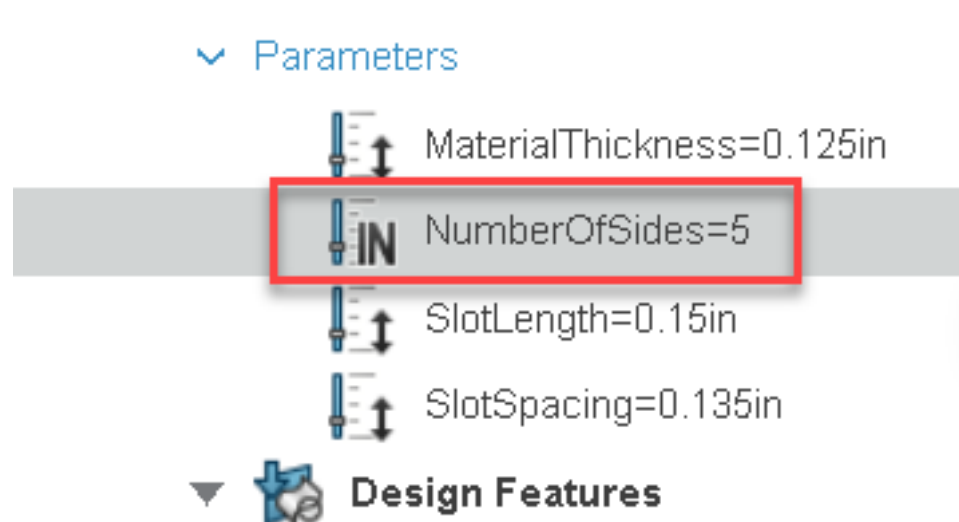
8. Work with your instructor to measure the thickness of the cardboard/foamboard you're using for this lesson.
9. Double-click the "MaterialThickness" parameter in the Design Manager



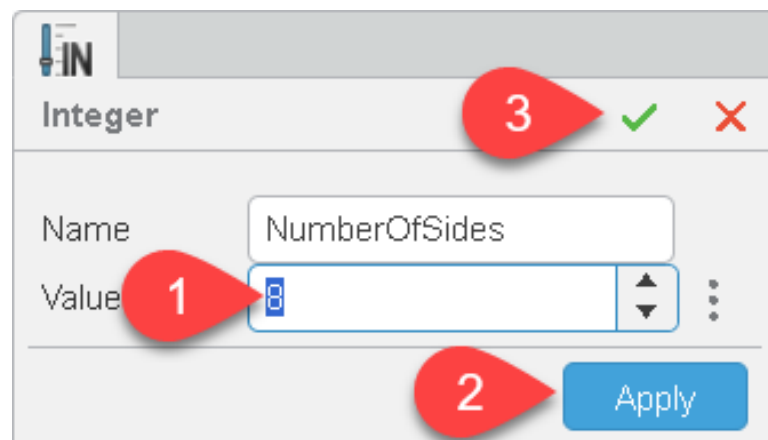
10. [1] Enter the thickness of your cardboard in the "Value" field, [2] Press "Apply" to update the model, [3] Click the OK checkmark to close the dialog



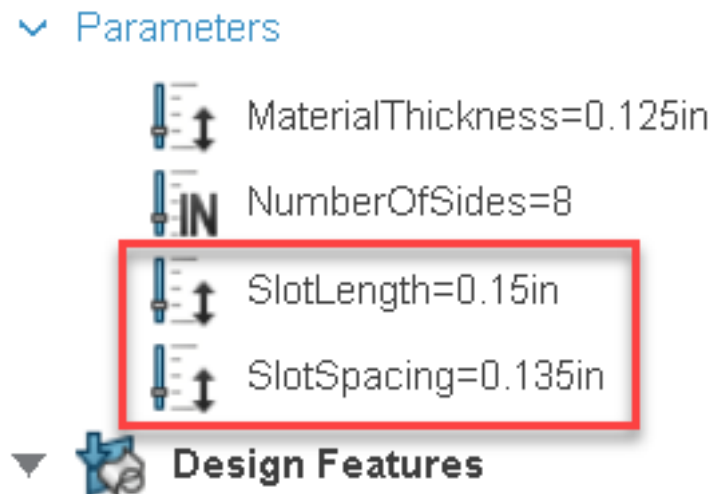
11. Double-click the “NumberOfSides” parameter in the Design Manager



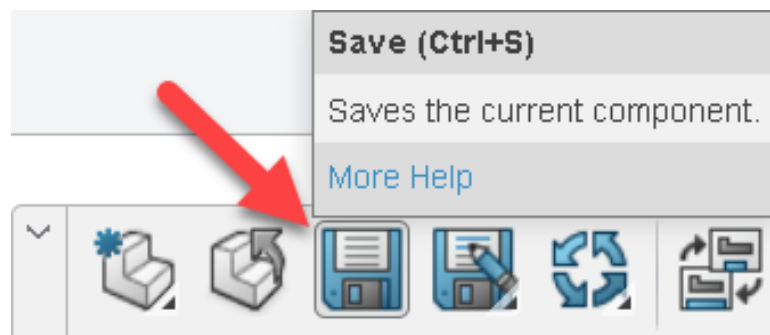
12. [1] Enter a number from 3 to 18 in the “Value” field, [2] Press “Apply” to update the model, [3] Click the OK checkmark to close the dialog



13. Repeat the above steps to experiment with modifying the “SlotLength” and “SlotSpacing” values



14. Click “Save” on the Action Bar to save your cardboard invention kit piece

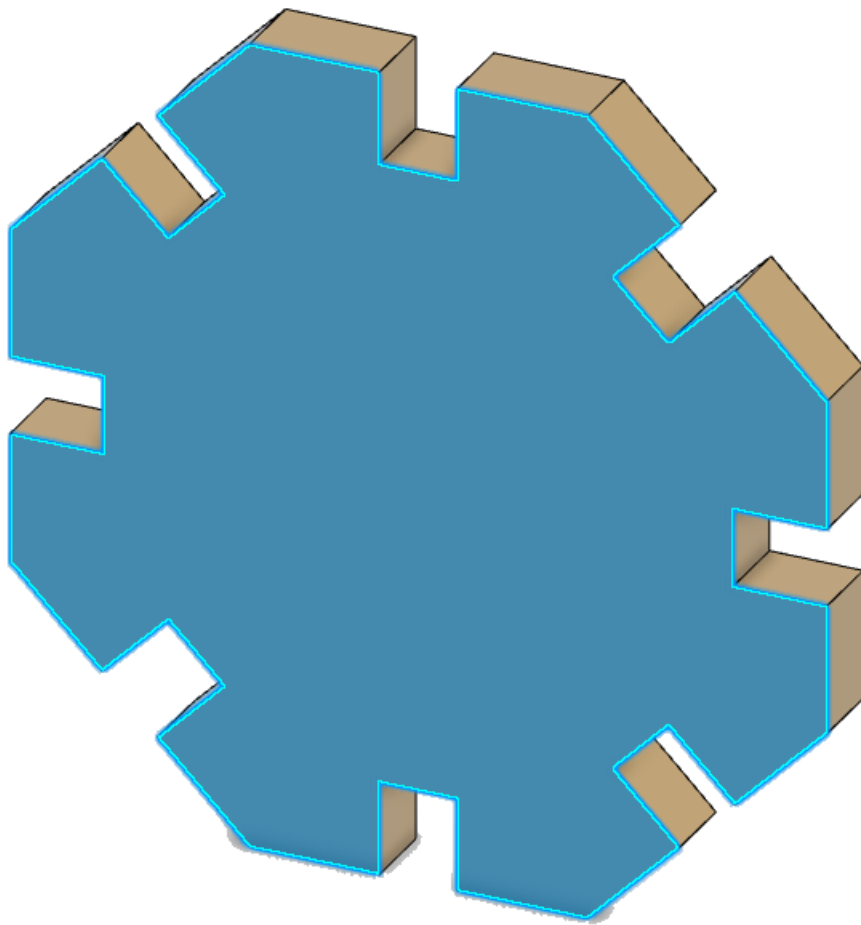


FABRICATE YOUR INVENTION KIT PART

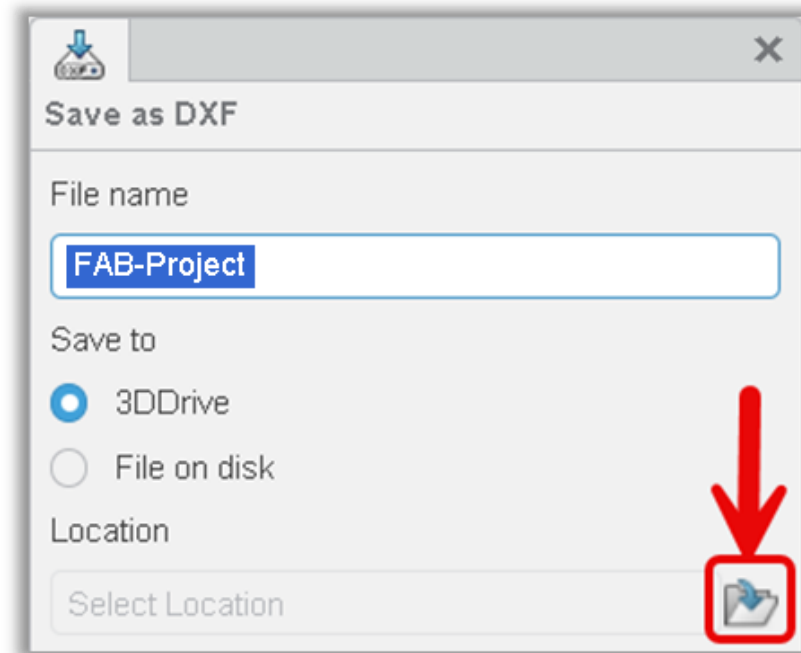
15. Click the **DXF** command on the Tools tab of the Action Bar



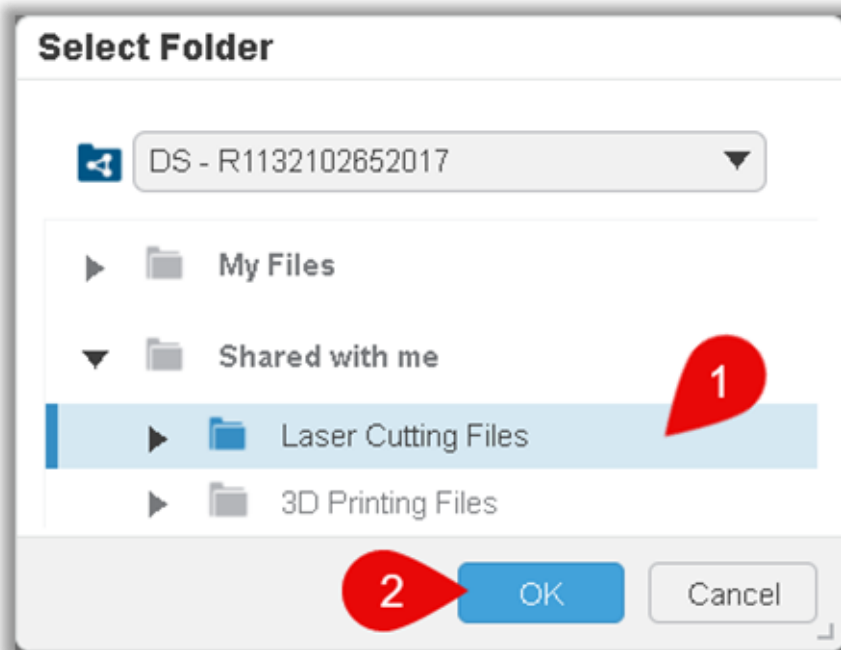
16. Select the large flat face of the model



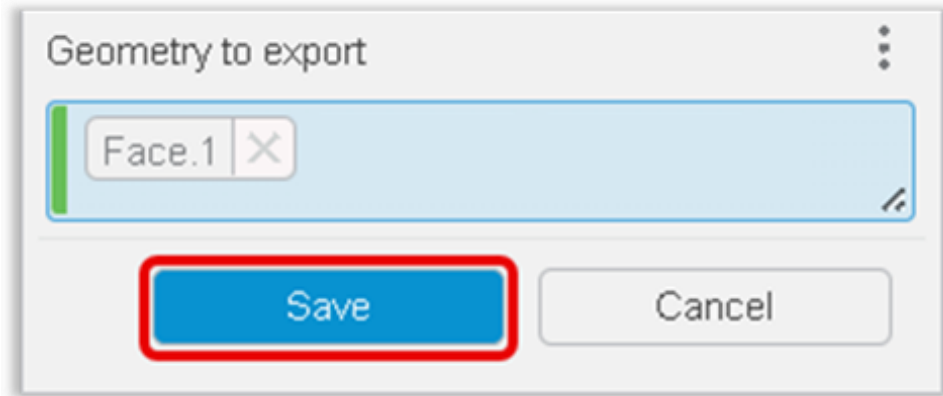
17. Click the Location folder button



18. [1] Select the folder your instructor told you to use to save your files then [2] click **OK**



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



Congratulations!

You're ready to laser cut your design!

See your teacher for further instruction!