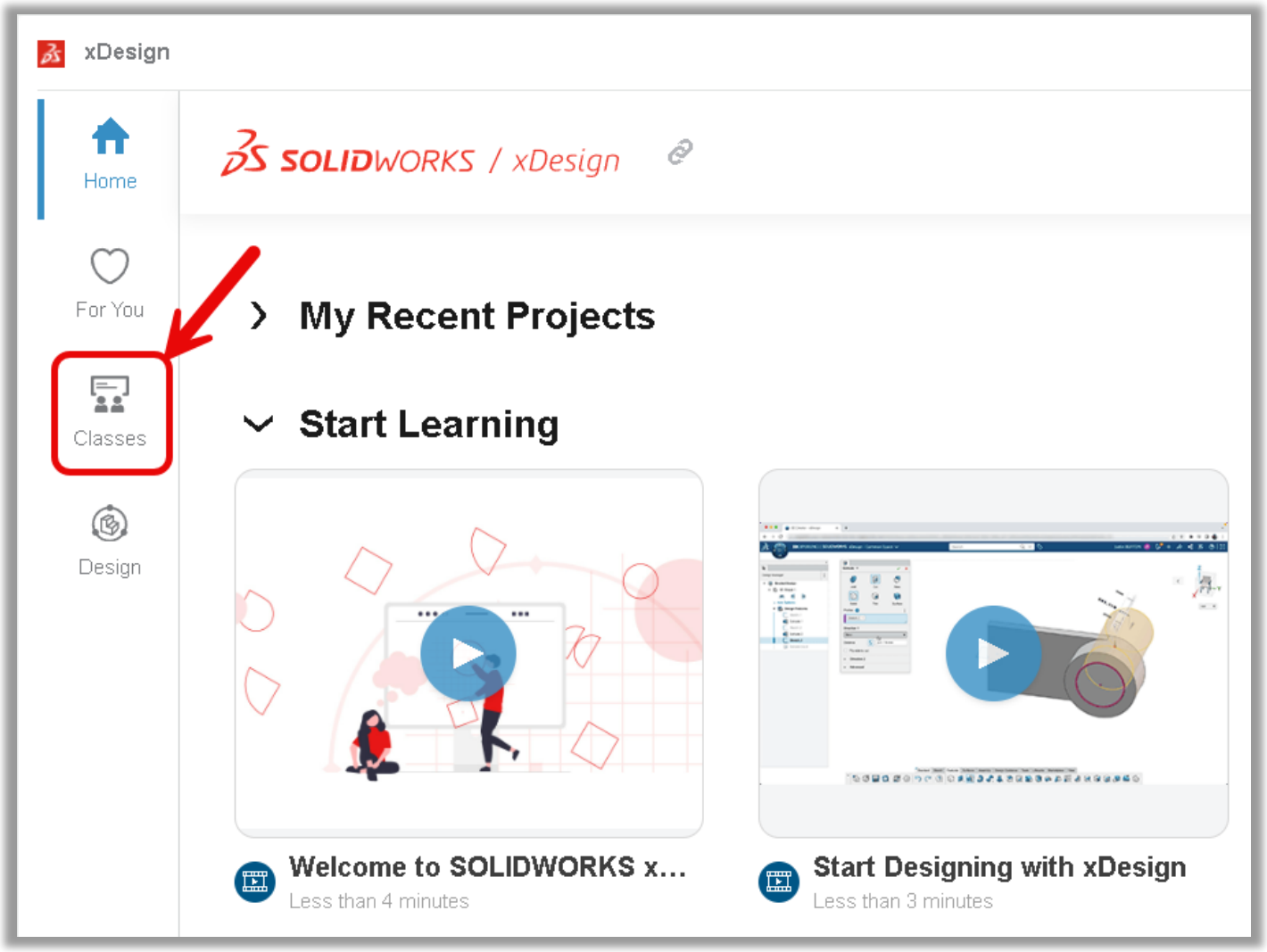
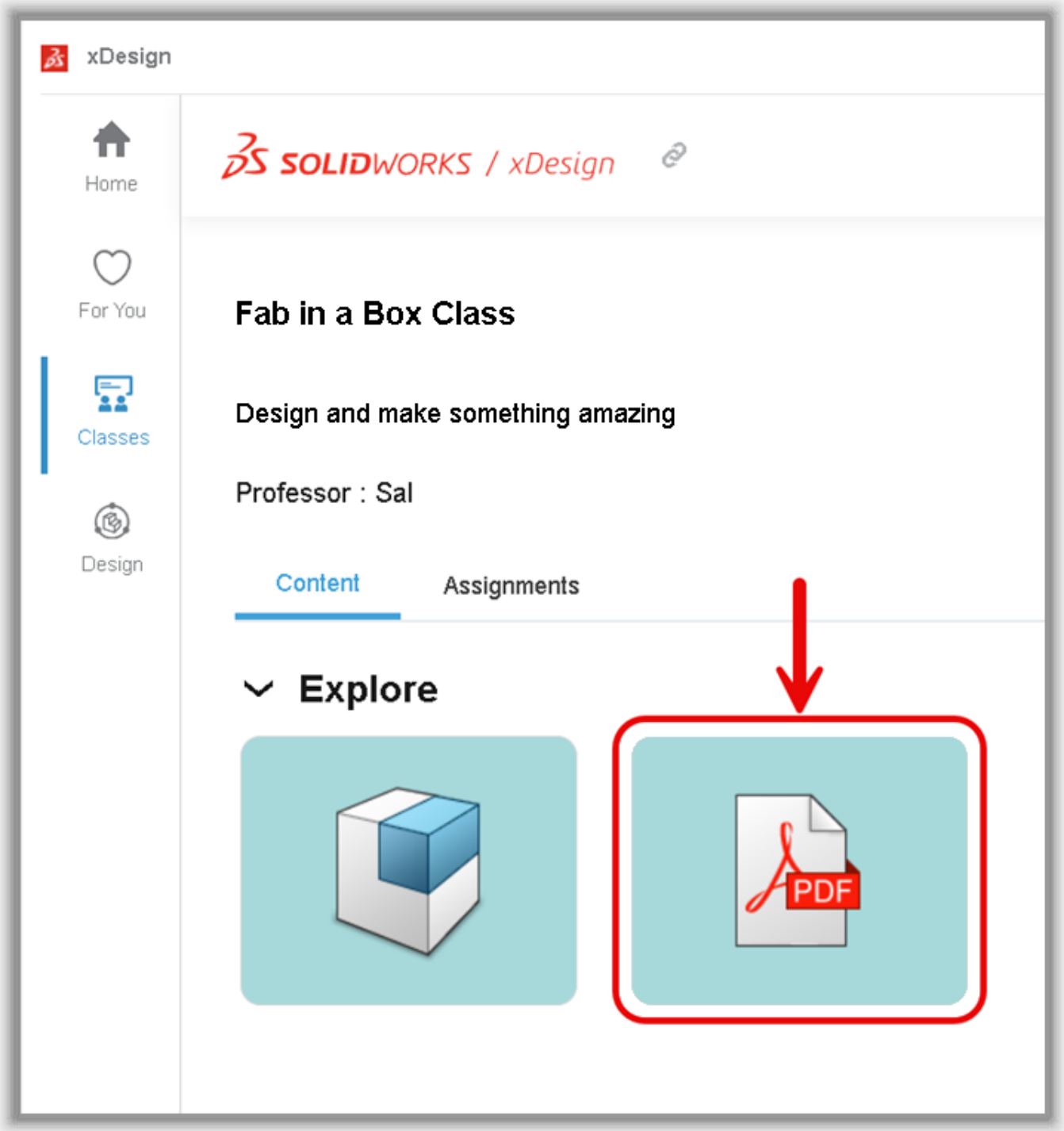
Design and fabricate your own scale models.

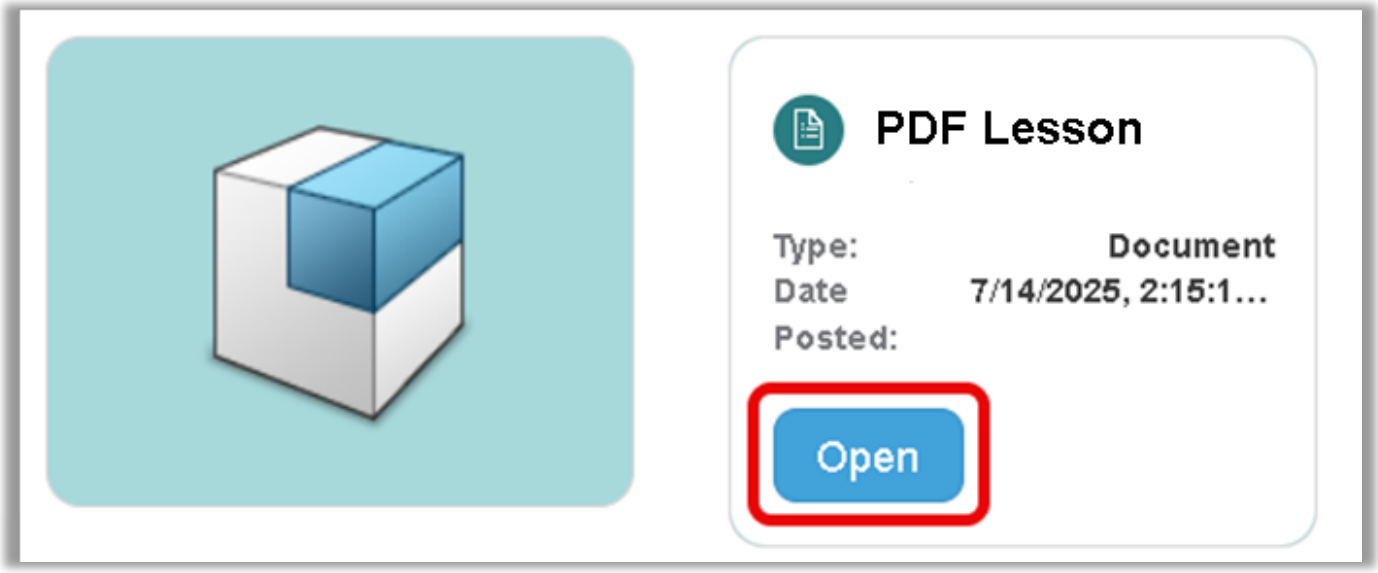
1. Click the **Classes** tab



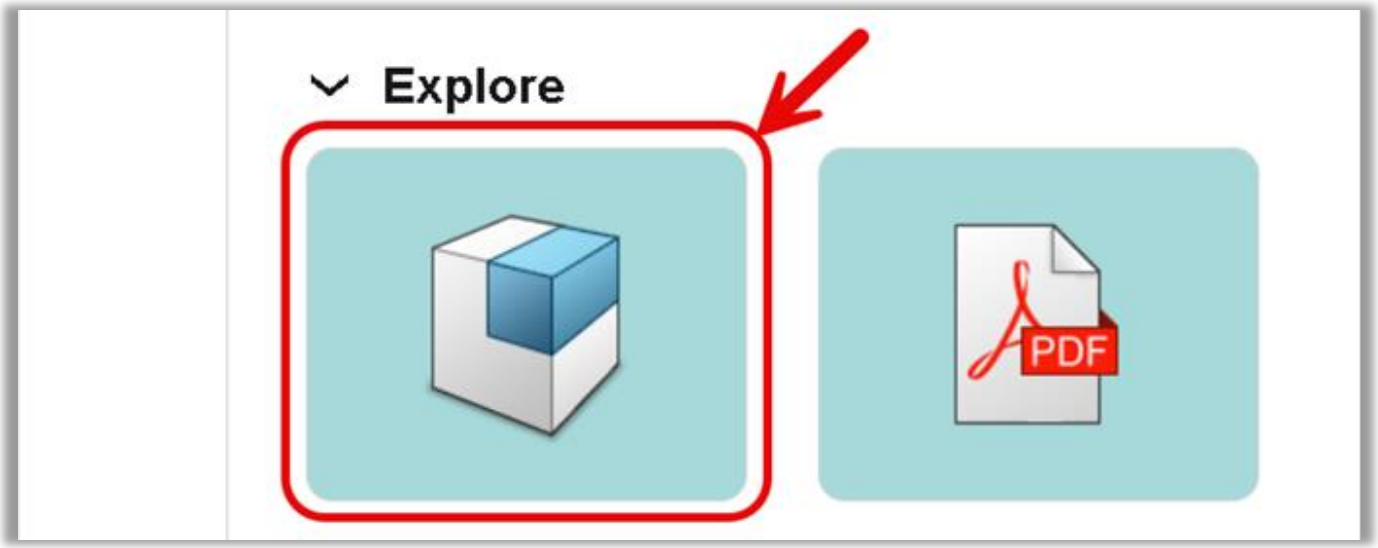
2. Hover over the PDF tile



3. Click **OPEN**



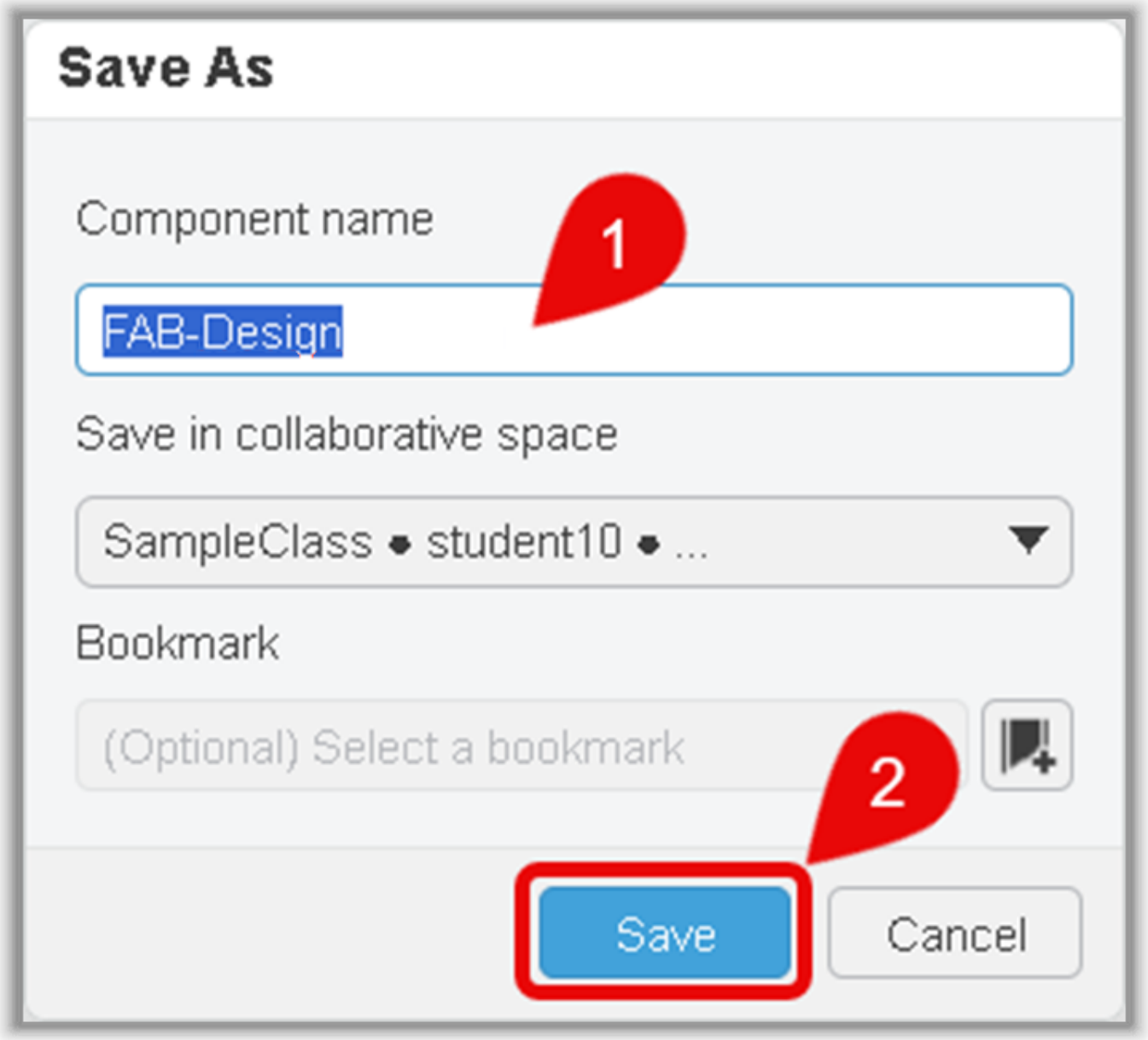
4. Hover over the "**Invention Kits – Scale Models"** tile



5. Click **OPEN**

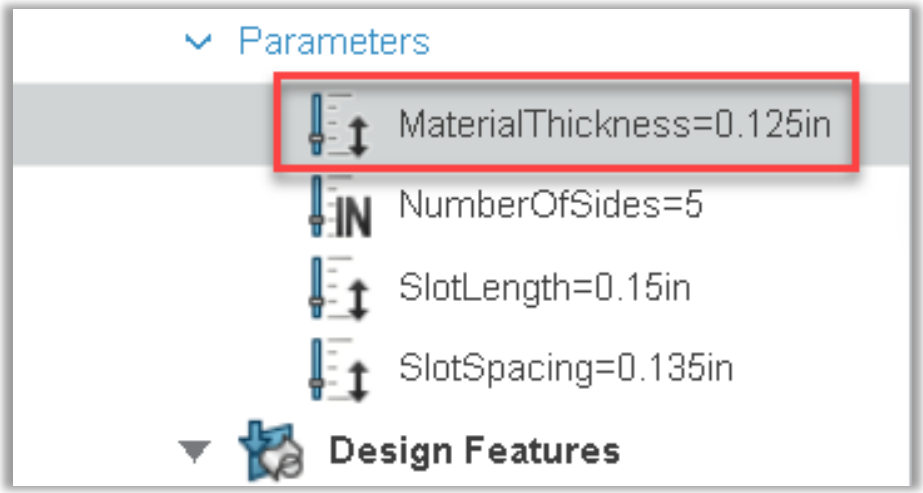
6. Click **Save As** on the Standard tab of the Action Bar

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

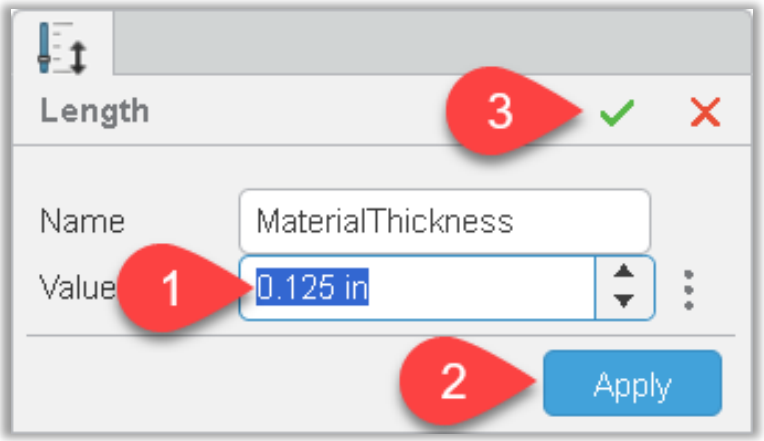


8. Work with your instructor to measure the thickness of the cardboard/foamboard you're using for this lesson.

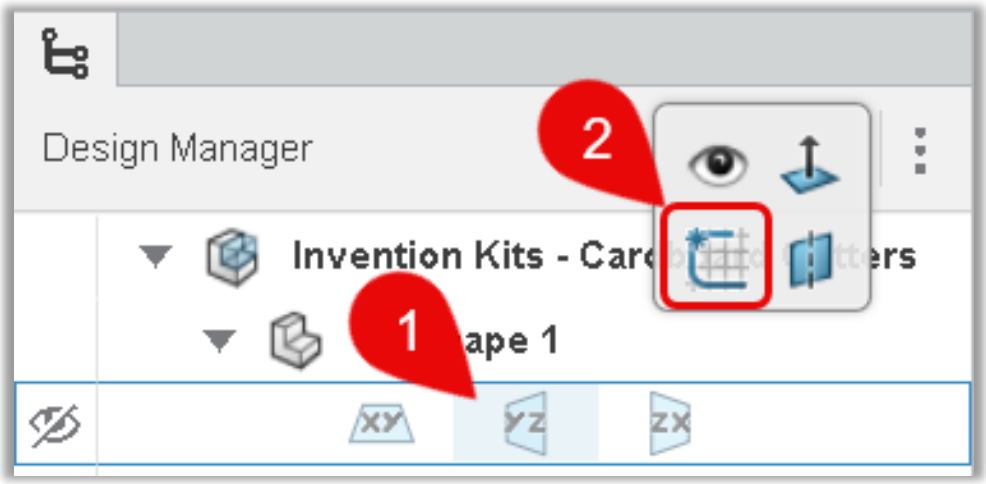
9. Double-click the "MaterialThickness" parameter in the Design Manager



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



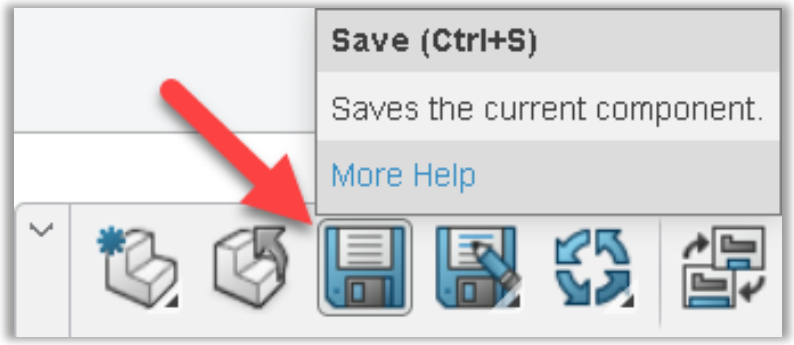
11. [1] Select the **YZ** plane in the Design Manager, then [2] click Create Sketch



- Use the design skills you've acquired in previous lessons to sketch and extrude a collection of parts that can be brought together to build a scale model of your choosing.

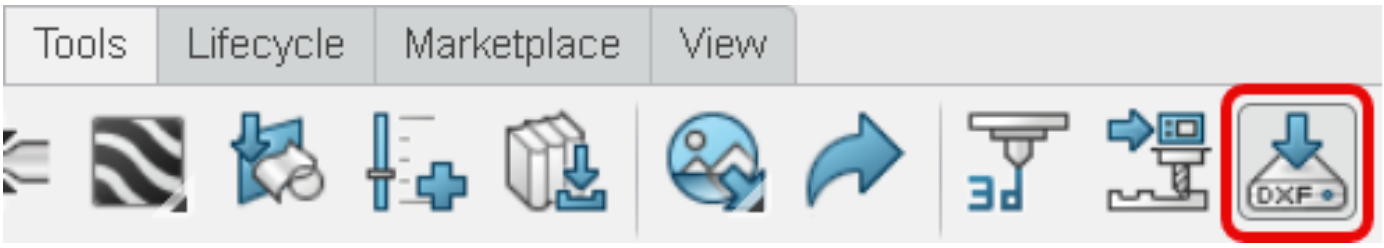
- Where appropriate, be sure to link dimensions to the "MaterialThickness" or "SlotLength" parameter by pressing the "=" key on the keyboard after selecting the dimension

12. When you're done, click "Save" on the Action Bar to save your scale model pieces



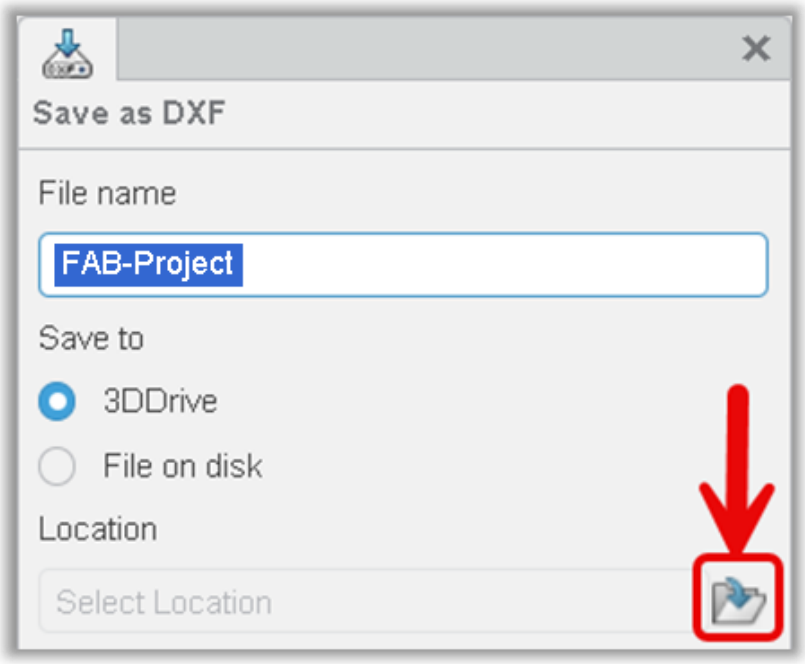
FABRICATE YOUR SCALE MODEL PARTS

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

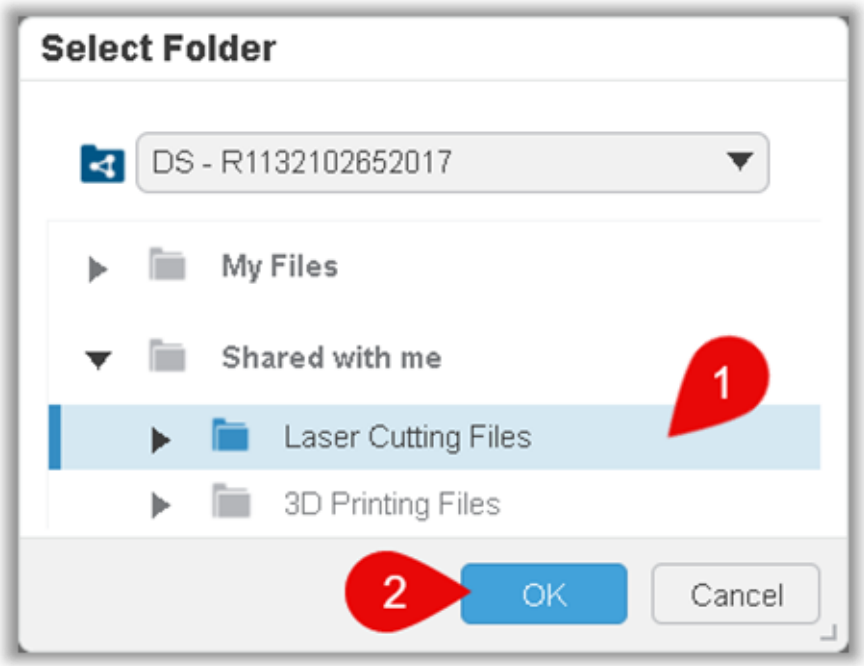


14. Select the large flat faces of your model

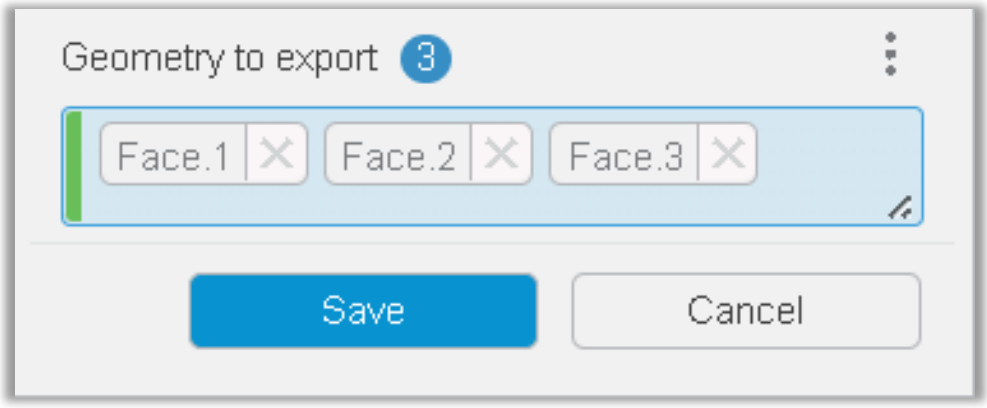
15. Click the Location folder button



16. [1] Select the folder your instructor told you to use to save your files then [2] click **OK**



17. 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!