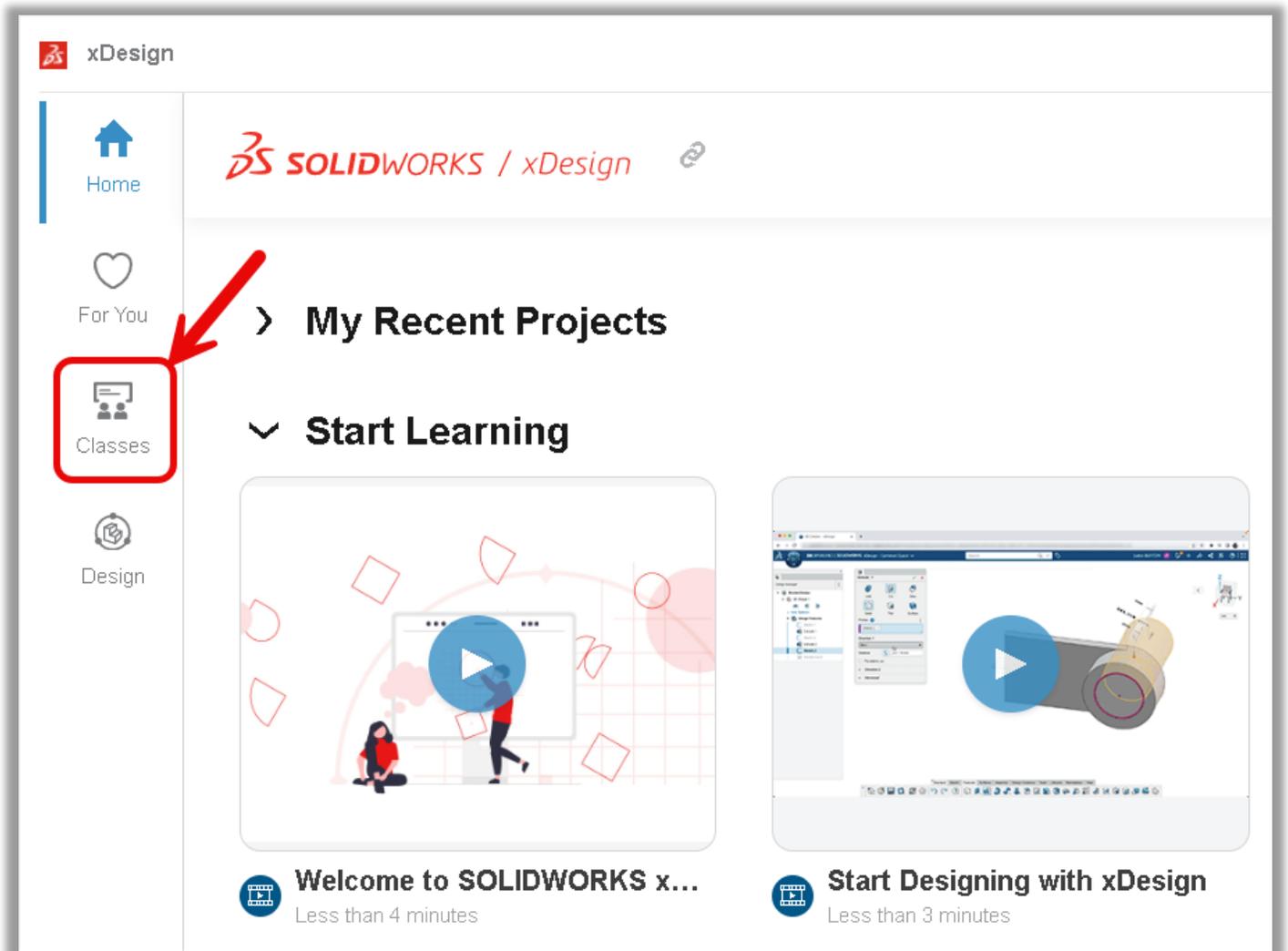


Design and fabricate your own scale models.

1. Click the **Classes** tab



The screenshot displays the xDesign web interface. On the left sidebar, the 'Classes' tab is highlighted with a red box and a red arrow. The main content area shows the 'SOLIDWORKS / xDesign' header, followed by 'My Recent Projects' and 'Start Learning' sections. Two video thumbnails are visible: 'Welcome to SOLIDWORKS x...' (Less than 4 minutes) and 'Start Designing with xDesign' (Less than 3 minutes).

xDesign

Home

For You

Classes

Design

SOLIDWORKS / xDesign

> **My Recent Projects**

∨ **Start Learning**

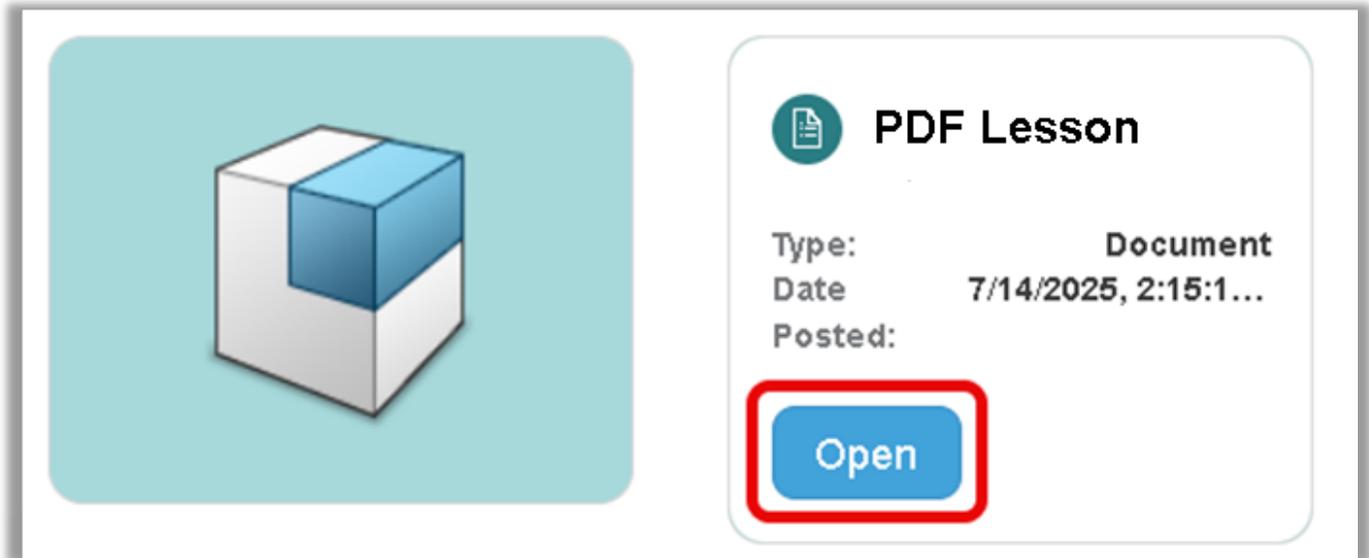
Welcome to SOLIDWORKS x...
Less than 4 minutes

Start Designing with xDesign
Less than 3 minutes

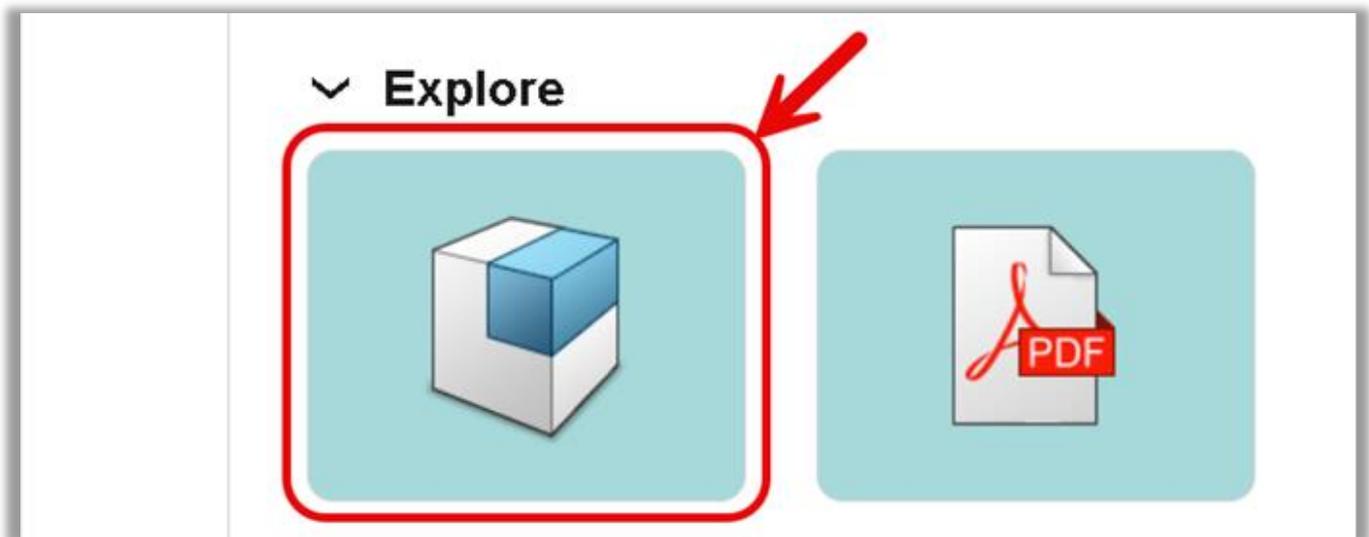
2. Hover over the PDF tile

The screenshot displays the xDesign web interface. On the left is a vertical navigation menu with icons for Home, For You, Classes (highlighted with a blue bar), and Design. The main content area features the SolidWorks logo and the text 'SOLIDWORKS / xDesign'. Below this is the class title 'Fab in a Box Class' and the subtitle 'Design and make something amazing'. The professor is listed as 'Professor : Sal'. There are two tabs: 'Content' (active) and 'Assignments'. Under the 'Content' tab, there is a section titled 'Explore' containing two tiles. The first tile shows a 3D model of a cube with a blue top face. The second tile shows a PDF document icon, which is highlighted with a red rounded rectangle and a red arrow pointing down to it.

3. Click **OPEN**



4. Hover over the “Invention Kits – Scale Models” tile



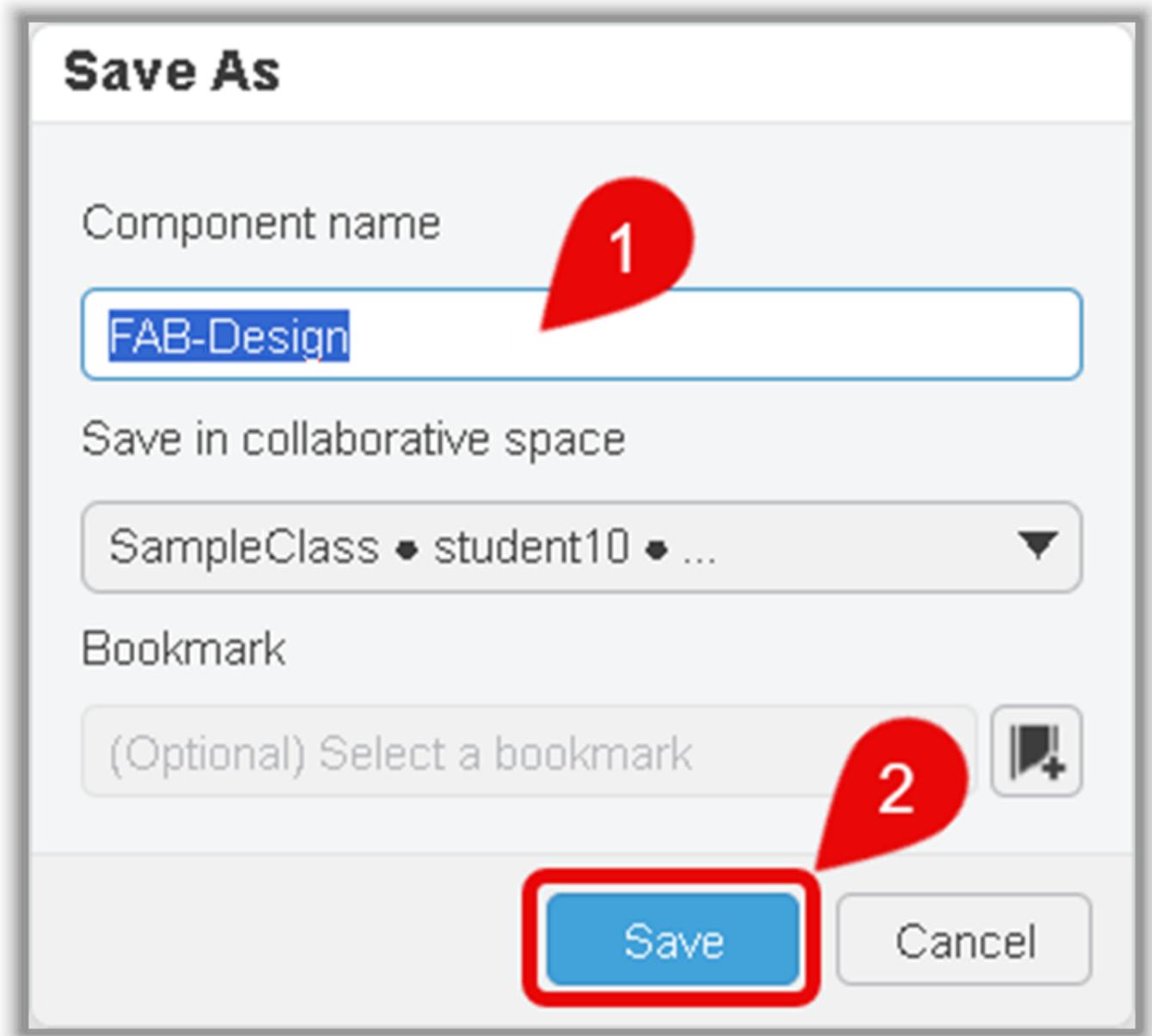
5. Click **OPEN**



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



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



Save As

Component name

FAB-Design

Save in collaborative space

SampleClass • student10 • ...

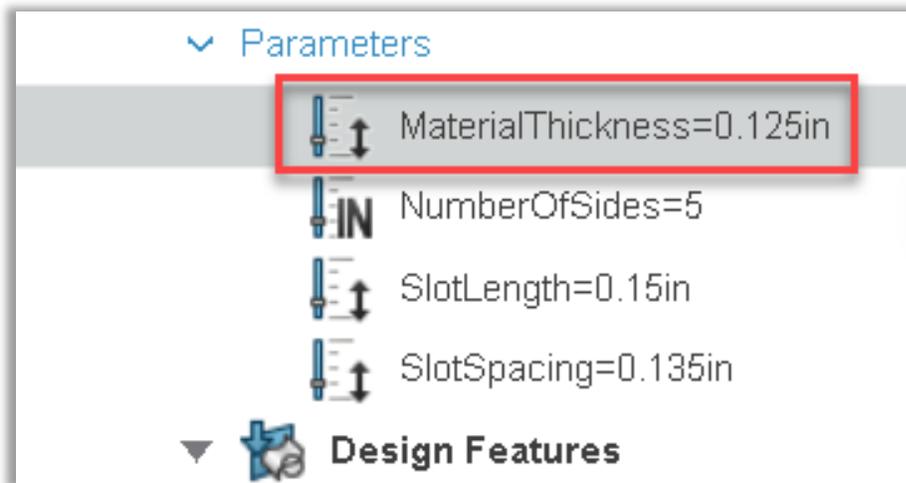
Bookmark

(Optional) Select a bookmark

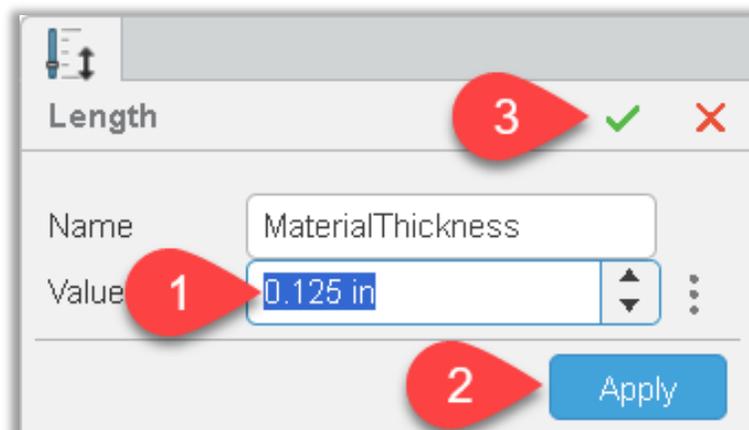
Save Cancel

The image shows a 'Save As' dialog box with several fields and buttons. A red callout bubble with the number '1' points to the 'Component name' text box, which contains 'FAB-Design'. Another red callout bubble with the number '2' points to the 'Save' button, which is also highlighted with a red rectangular border. The 'Save' button is blue with white text, while the 'Cancel' button is light gray with black text. The dialog box has a light gray background and rounded corners.

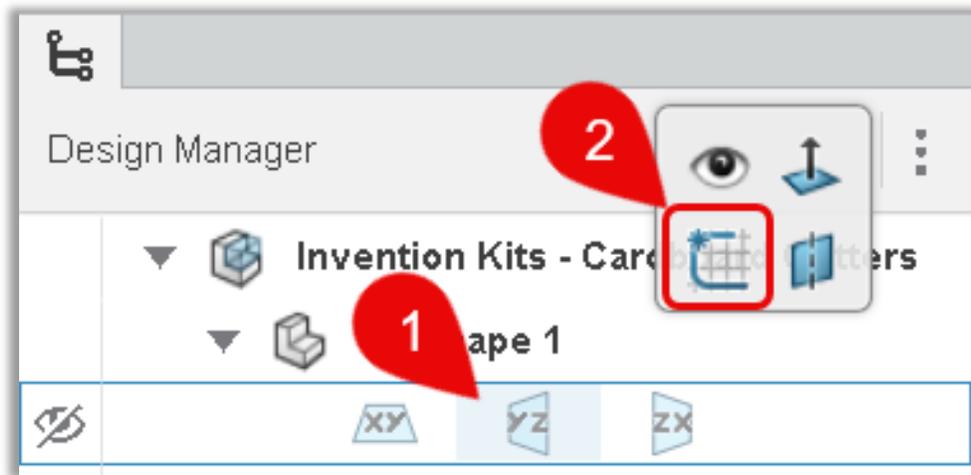
8. Work with your instructor to measure the thickness of the cardboard/foamboard you're using for this lesson.
9. Double-click the "MaterialThickness" parameter in the Design Manager



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

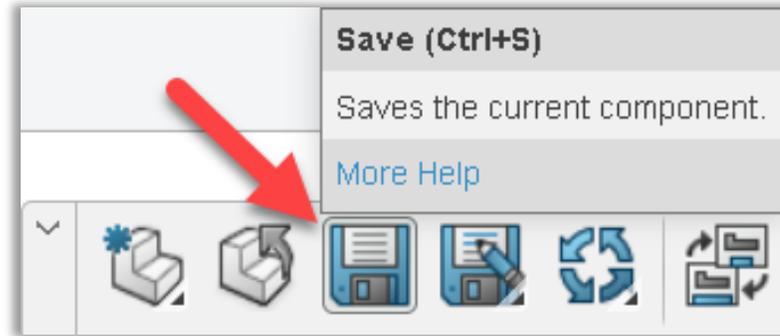


11. [1] Select the **YZ** plane in the Design Manager, then
[2] click Create Sketch



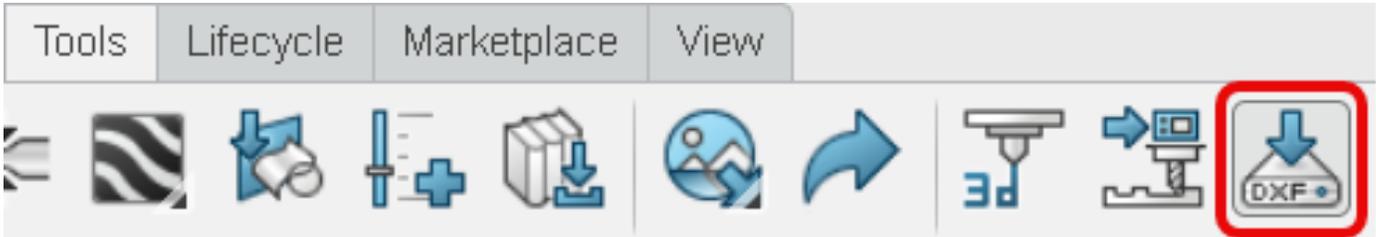
- Use the design skills you've acquired in previous lessons to sketch and extrude a collection of parts that can be brought together to build a scale model of your choosing.
- Where appropriate, be sure to link dimensions to the "MaterialThickness" or "SlotLength" parameter by pressing the "=" key on the keyboard after selecting the dimension

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



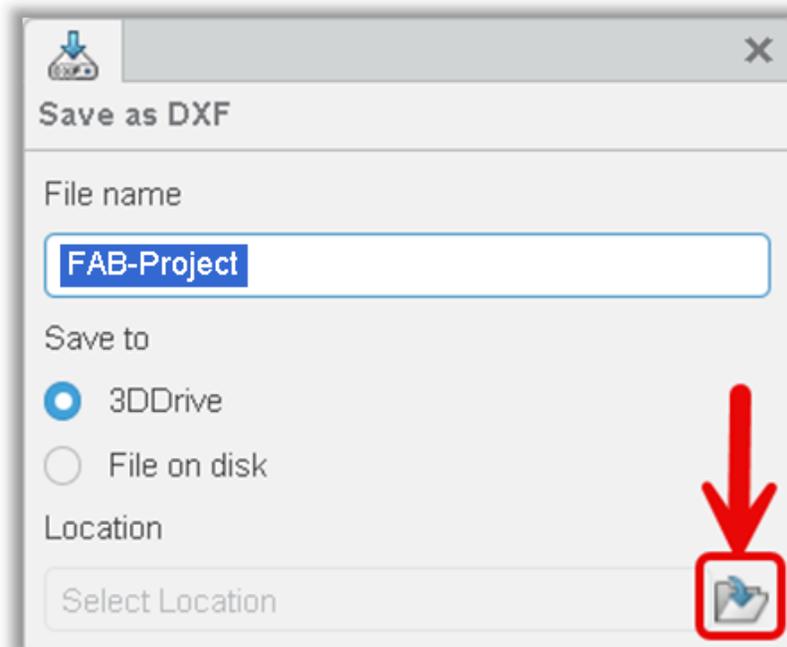
FABRICATE YOUR SCALE MODEL PARTS

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

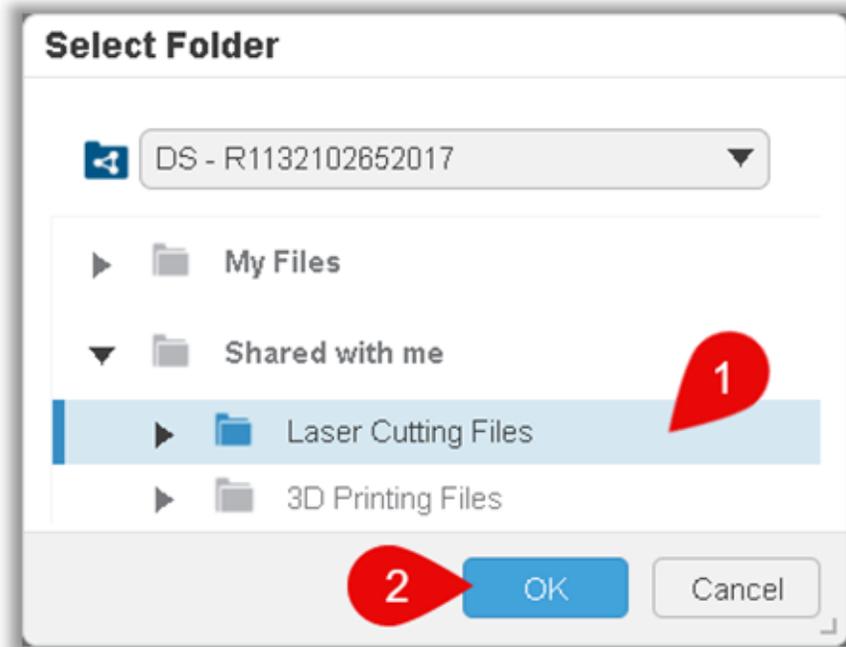


14. Select the large flat faces of your model

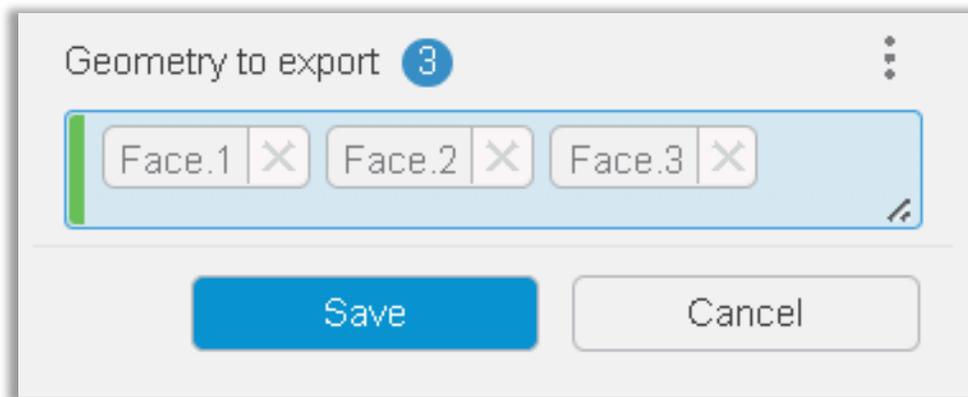
15. Click the Location folder button



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!