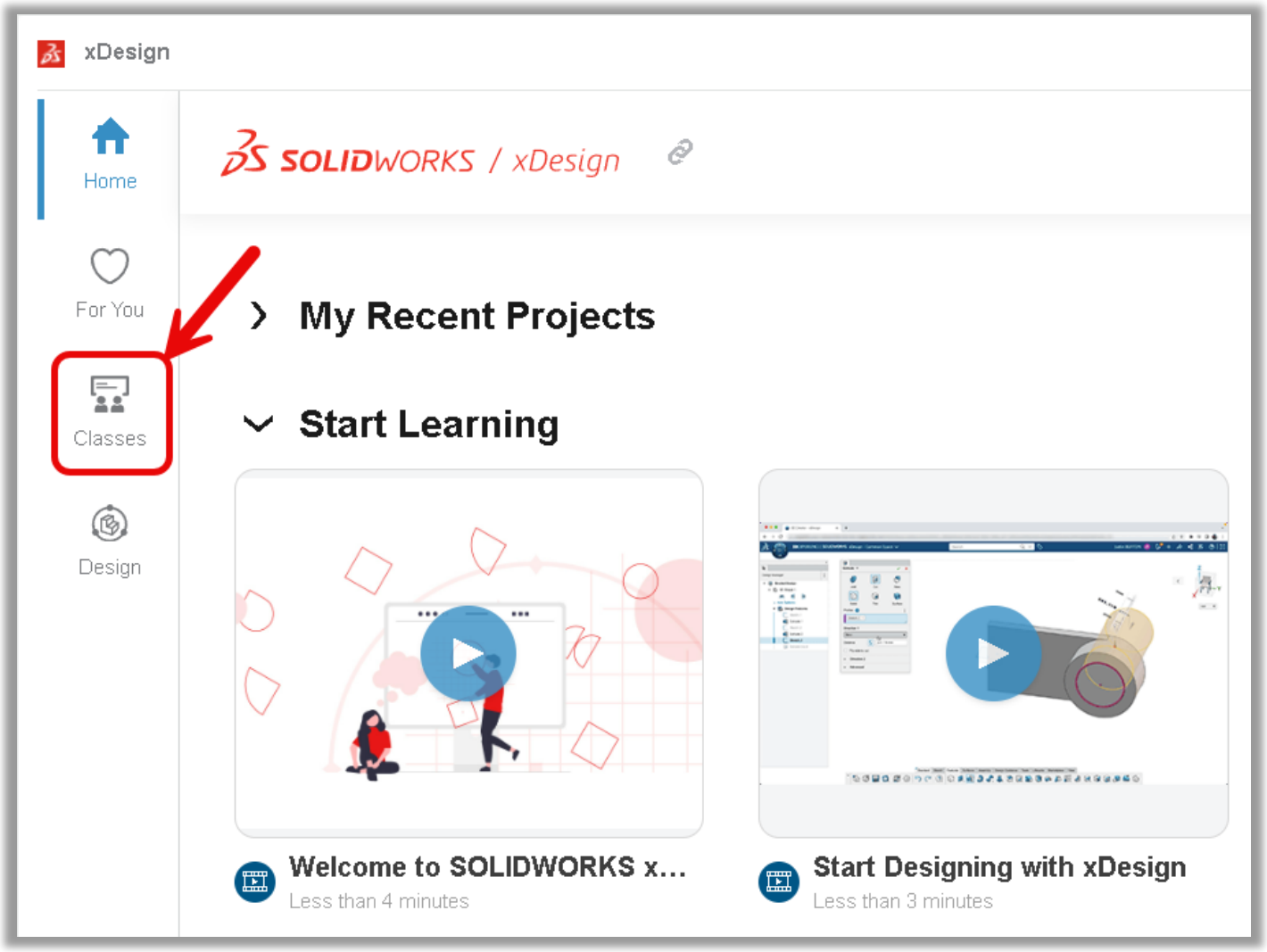
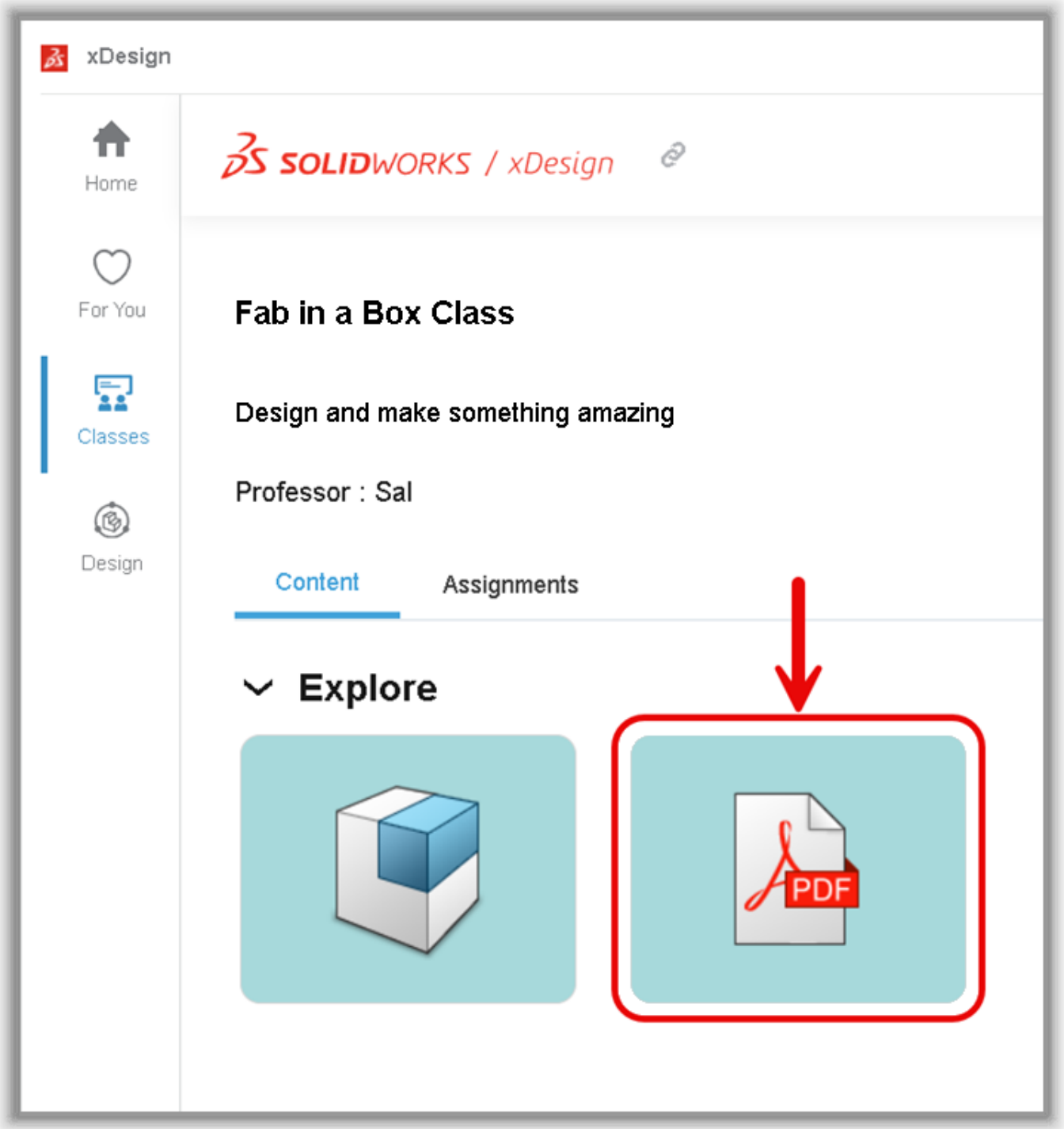
Design and fabricate your own custom dice.

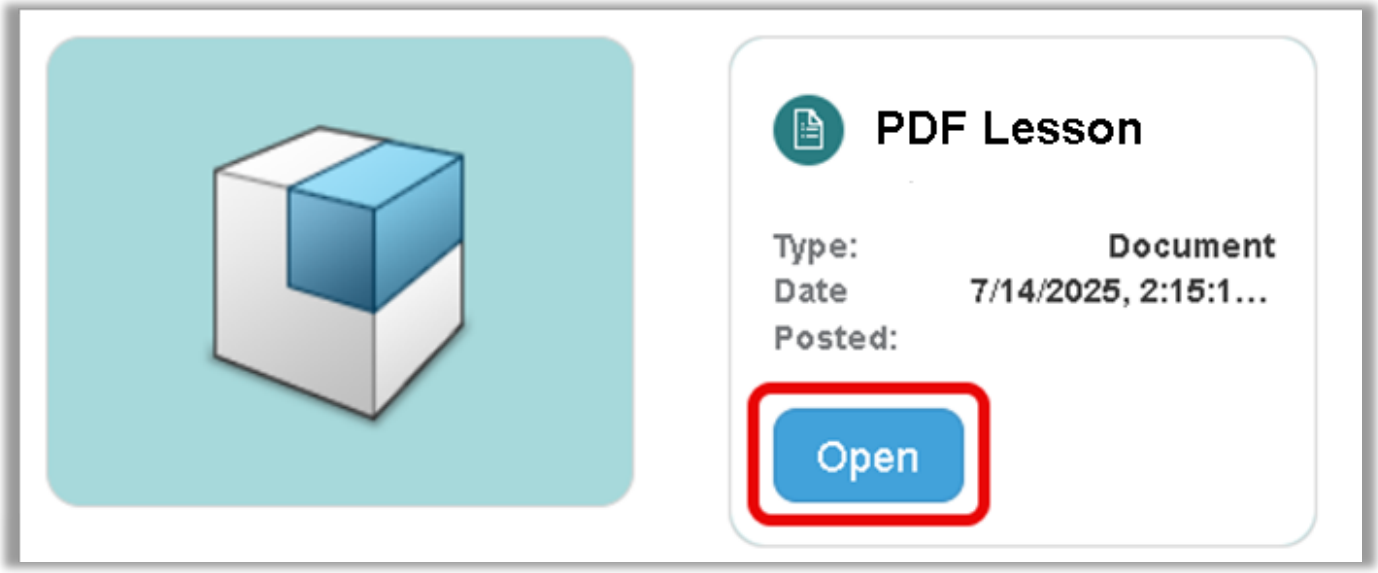
1. Click the **Classes** tab



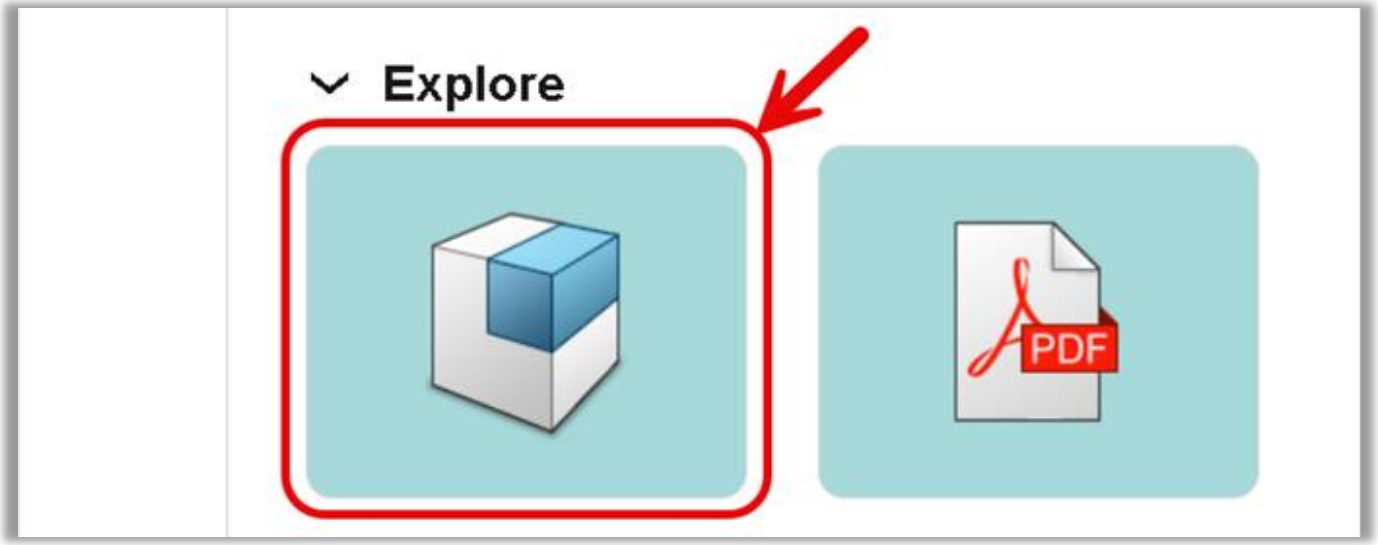
2. Hover over the PDF tile



3. Click **OPEN**



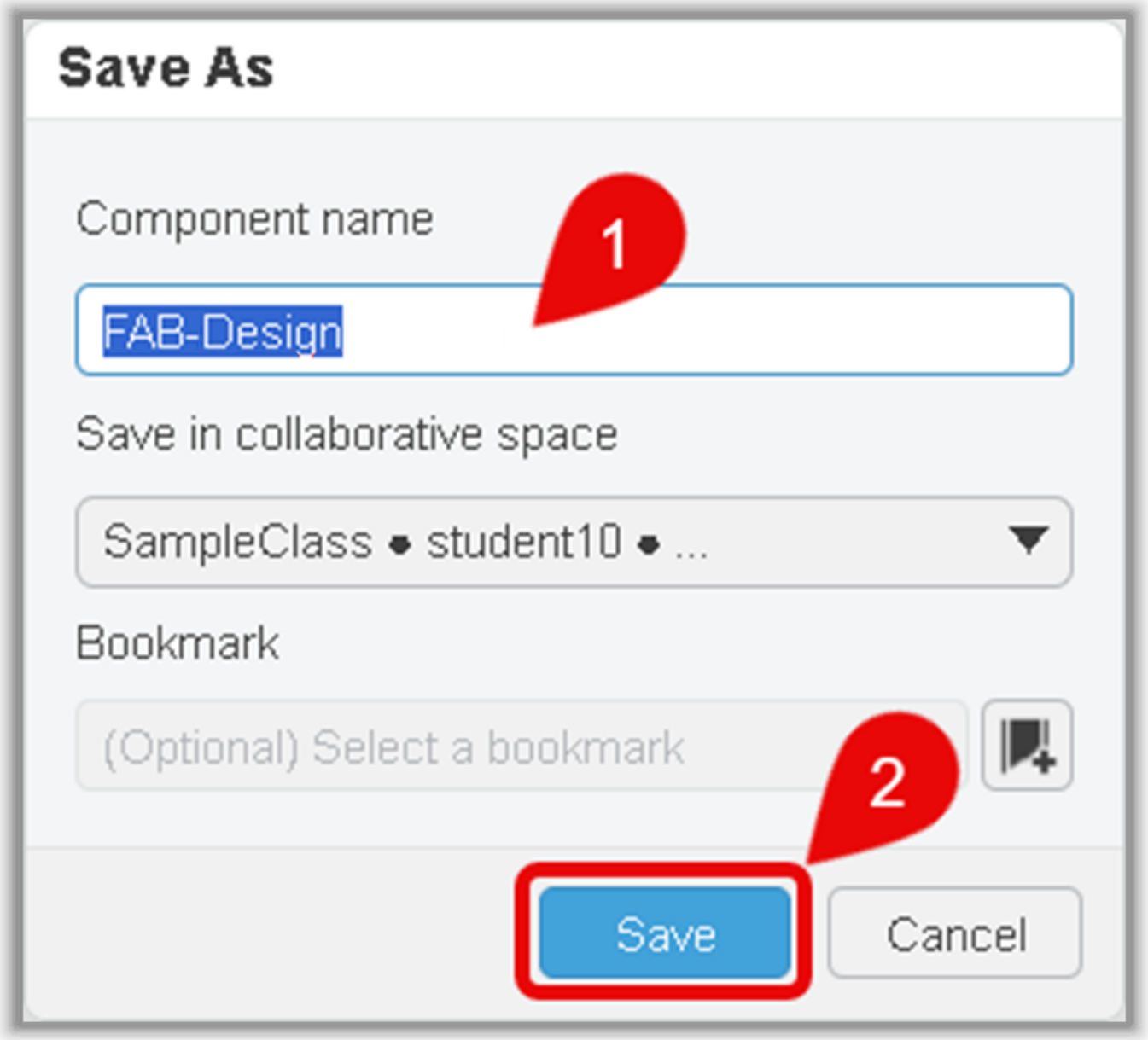
4. Hover over the "**<u>3D Printed Dice - Dice Modeling"</u>** tile



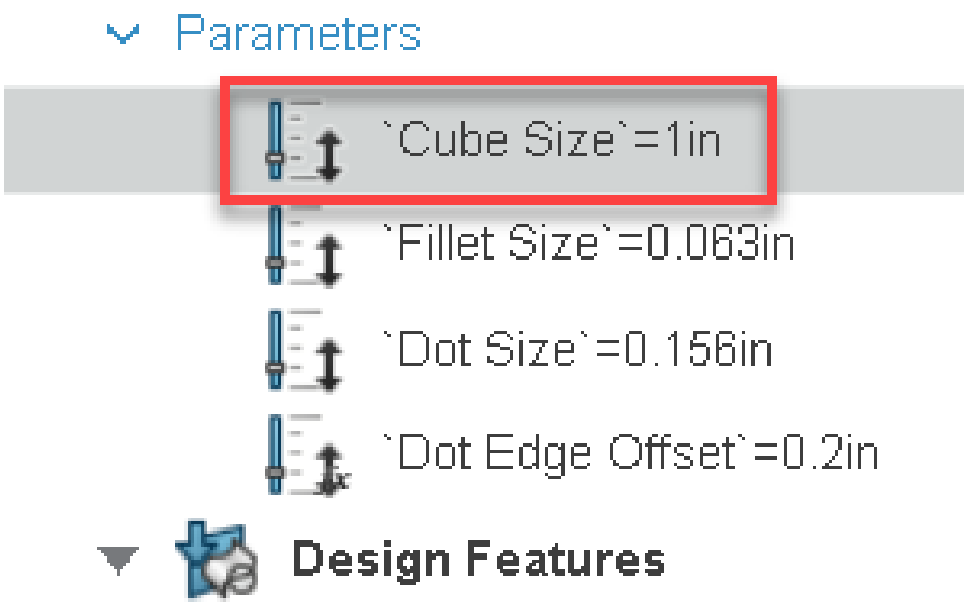
5. Click **OPEN**

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

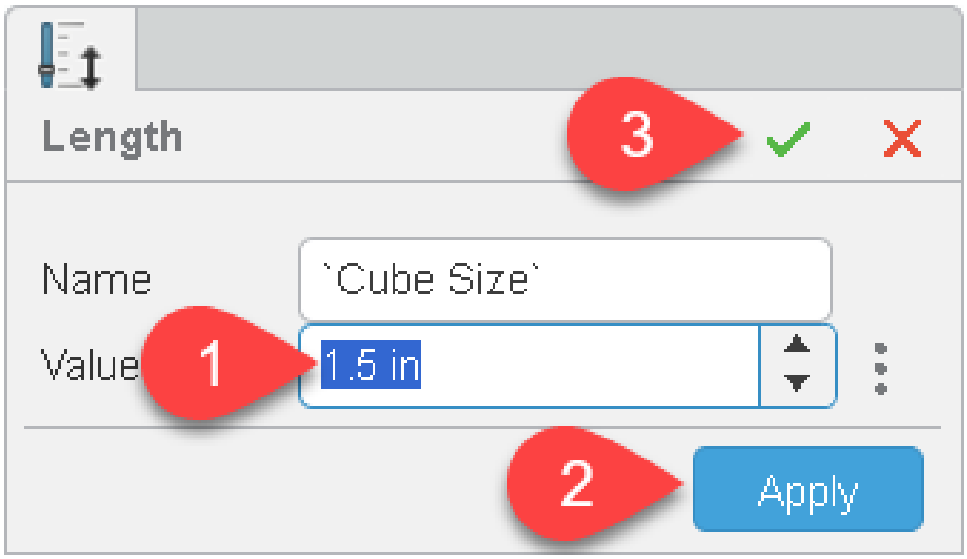
7. [1] Type a name for your design, then [2] click **Save**



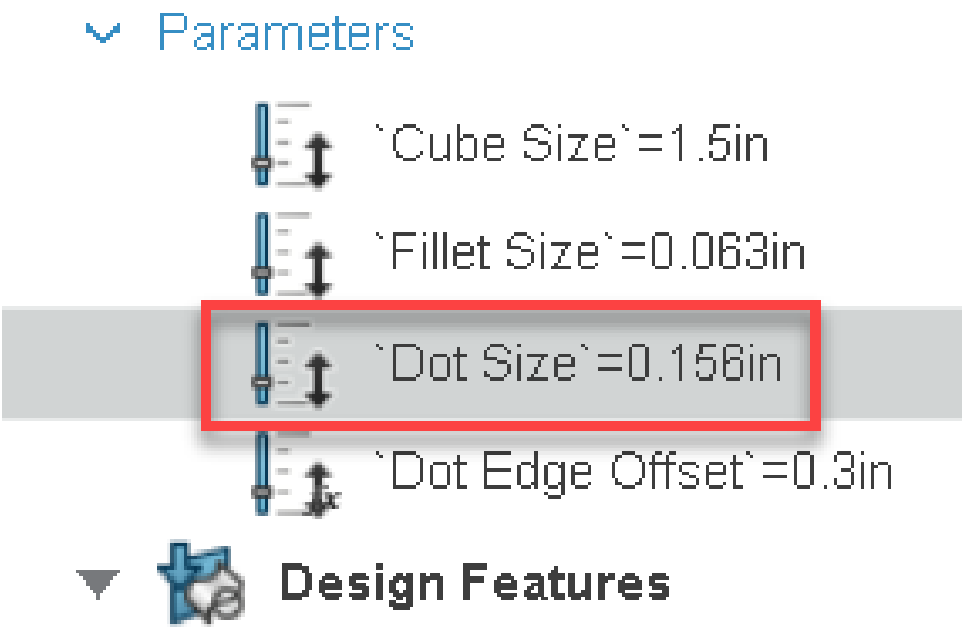
8. Double-click the “Cube Size” parameter in the Design Manager



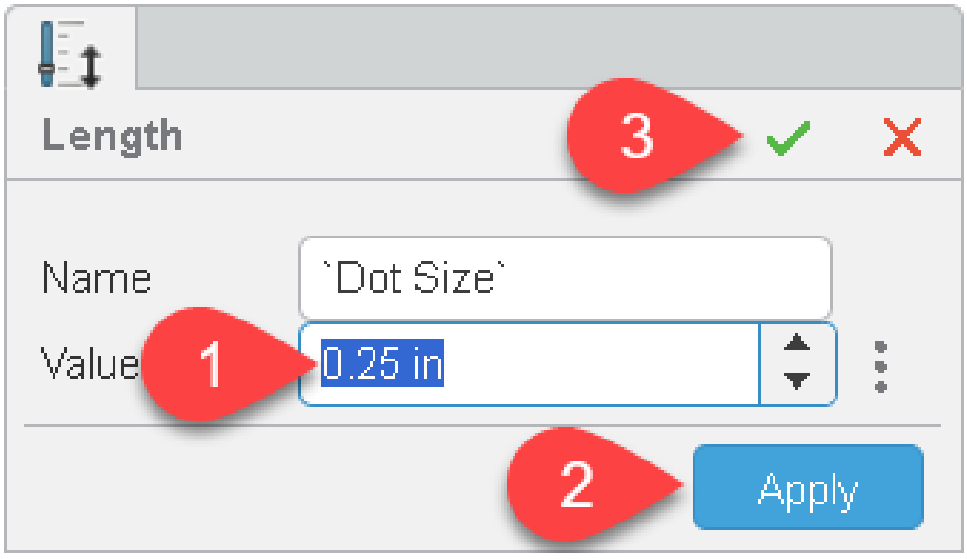
9. [1] Enter a number into the “Value” field (make sure it’s small enough to fit on your 3D Printer), [2] Press “Apply” to update the model, [3] Click the OK checkmark to close the dialog



10. Double-click the “Dot Size” parameter in the Design Manager

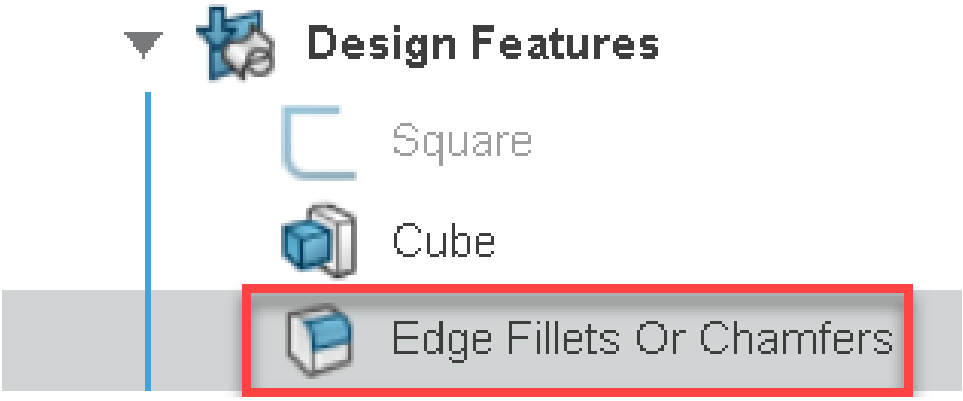


11. [1] Enter a number in the “Value” field, [2] Press “Apply” to update the model (if you don’t like the size of your dots, repeat steps 1 and 2 again), [3] Click the OK checkmark to close the dialog

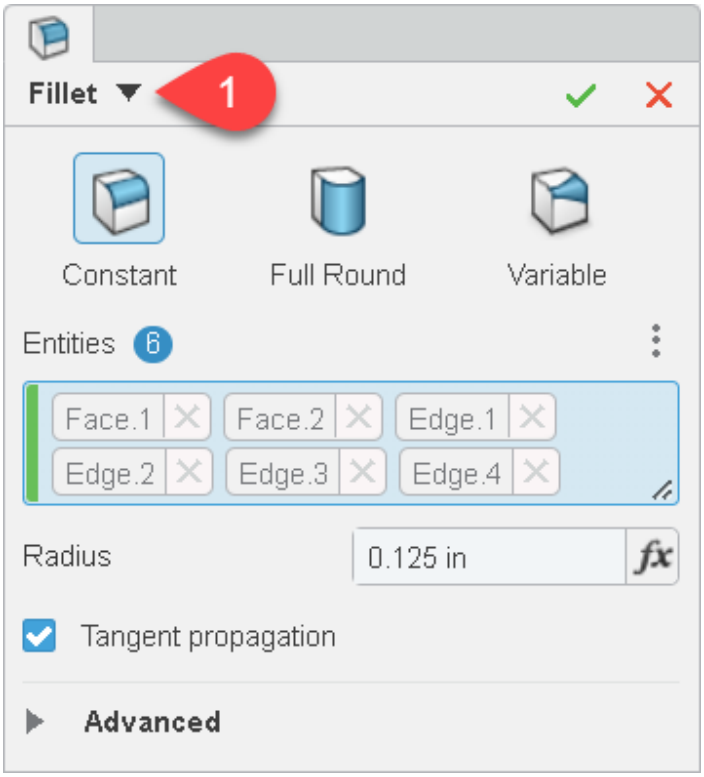


12. Repeat the above steps to experiment with modifying the “Fillet Size” value

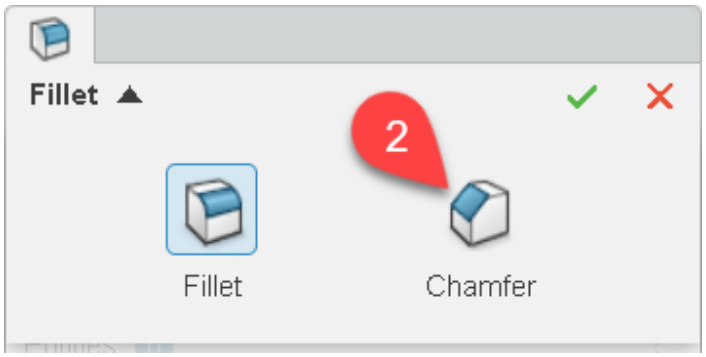
13. Double-click the “Edge Fillets Or Chamfers” feature in the Design Manager



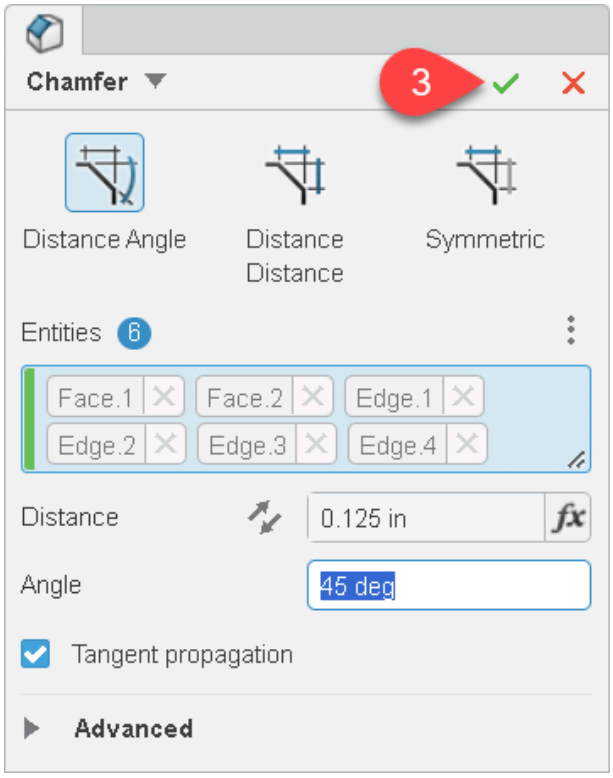
14. [1] Click the dropdown arrow next to “Fillet” at the top of the dialog

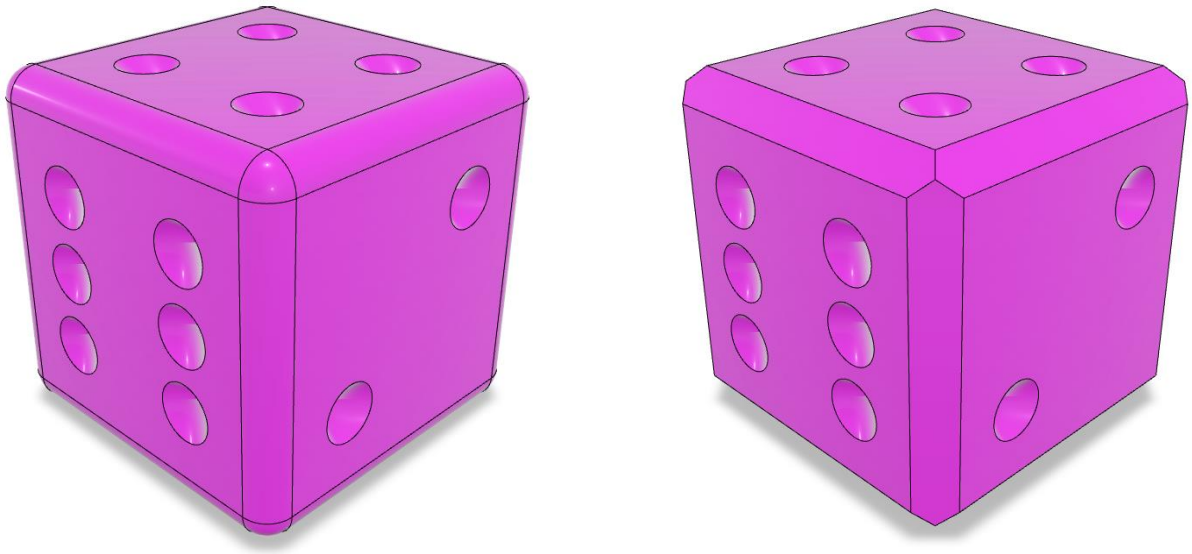


15. [2] Click Chamfer from the flyout menu

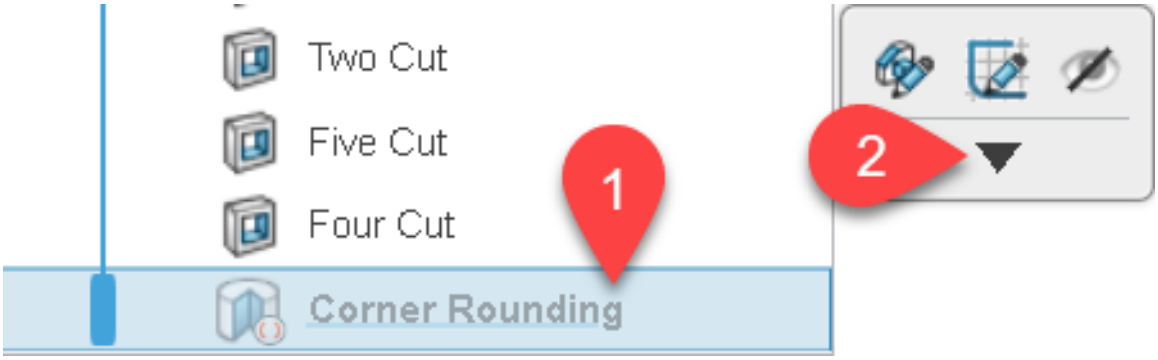


16. Then [3] click the **OK** checkmark (if you prefer fillets, you can edit the feature again and change back it back to a Fillet)

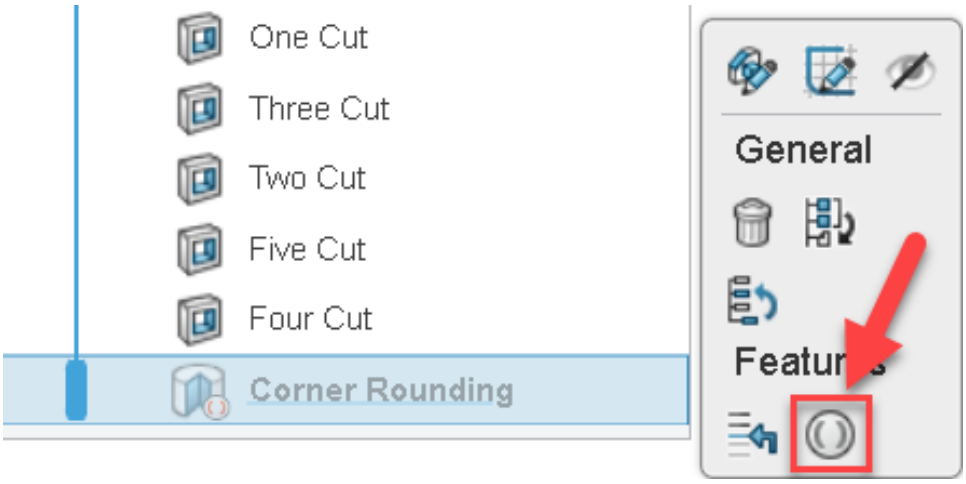


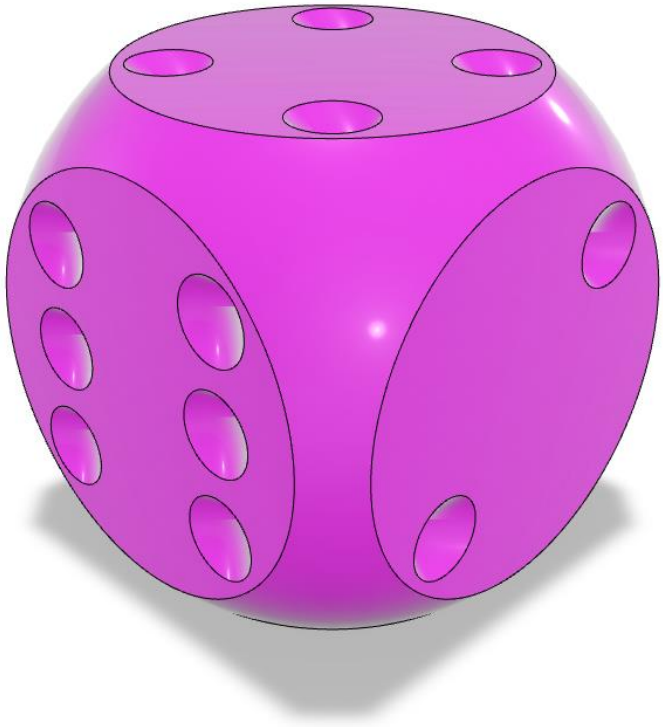


17. [1] Select the “Corner Rounding” feature in the Design Manager, and then [2] click the dropdown arrow in the context menu



18. Click the “Activate” button to enable this feature and see its impact on the model



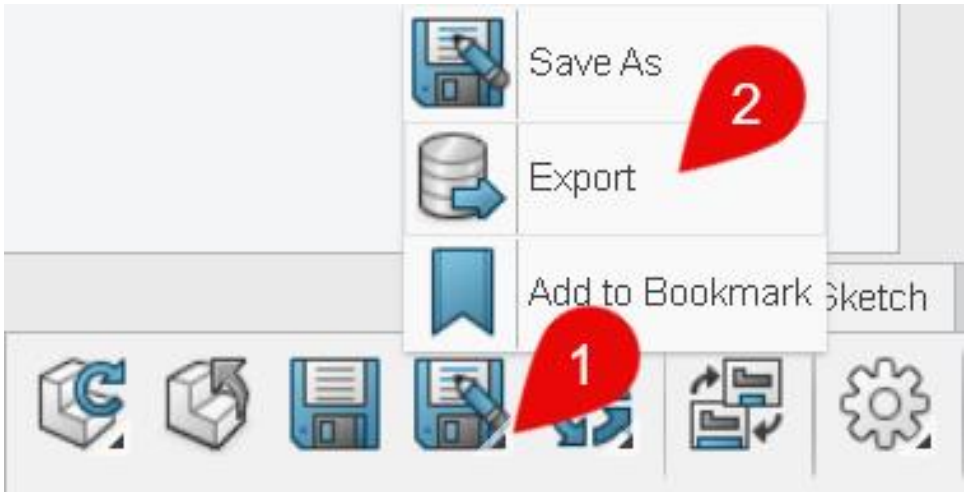


--- if you don’t like this style, you can select the feature from the Design Manager again, and choose “Deactivate” from the dropdown section of the context menu

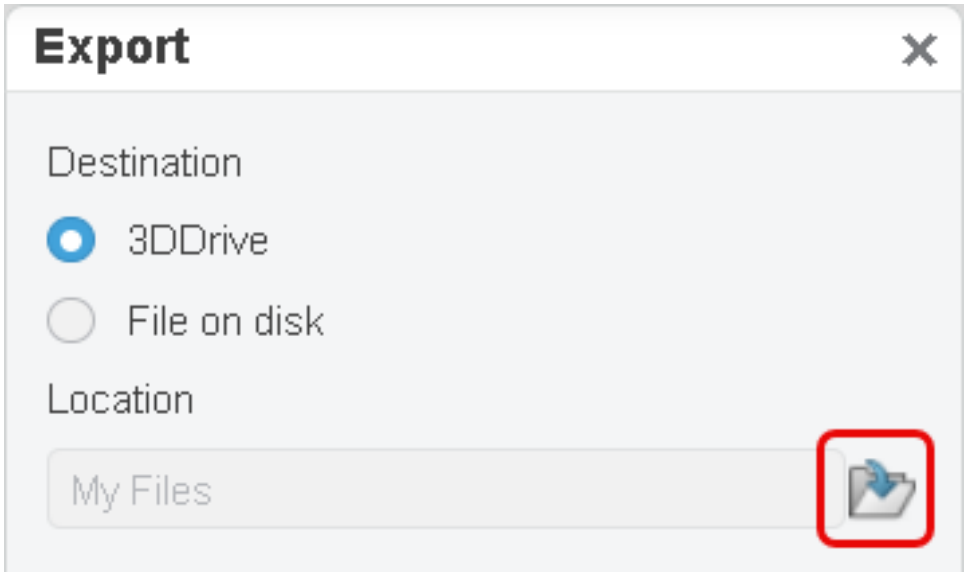
19. Click “Save” on the Action Bar to save your custom die

FABRICATE YOUR DIE

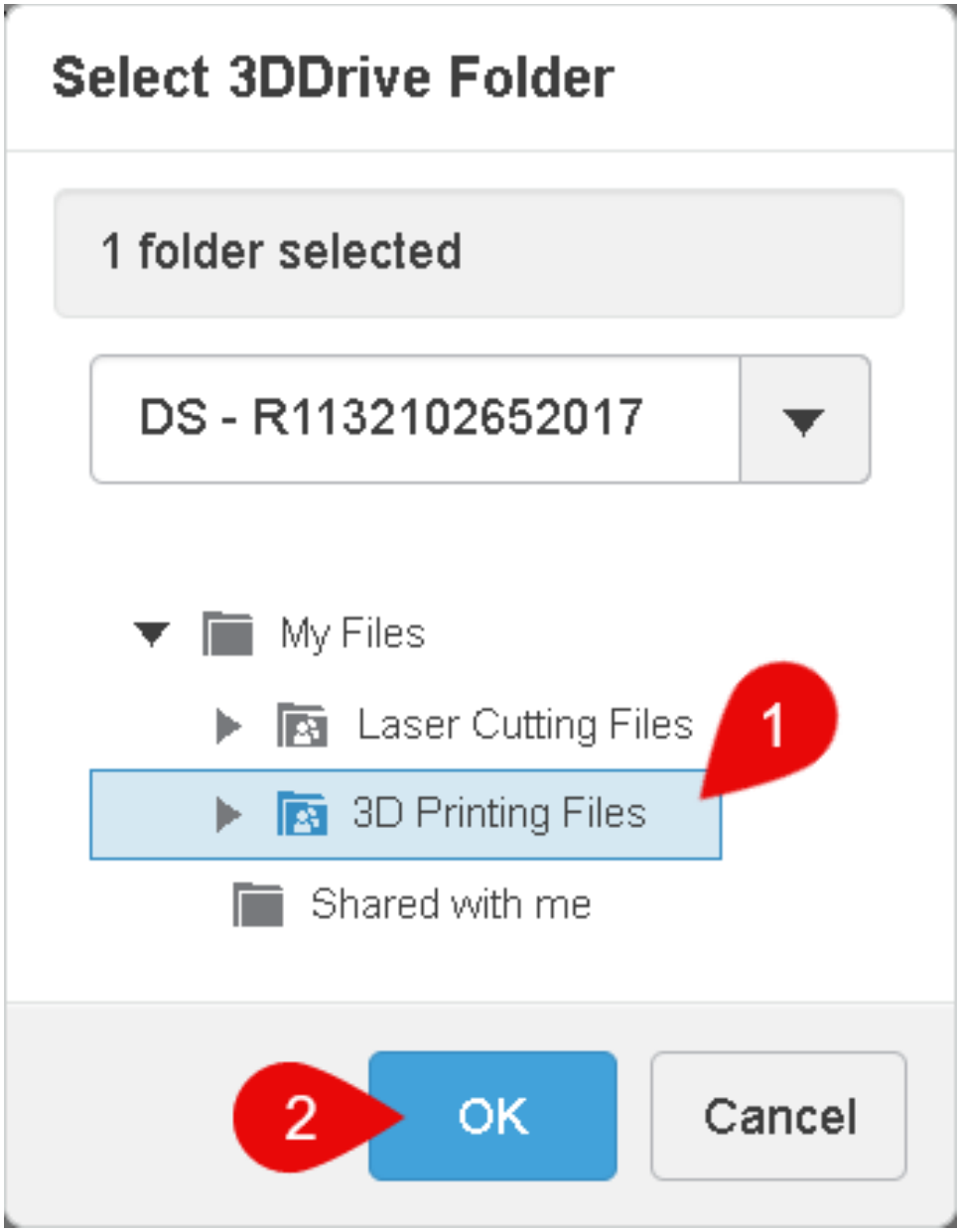
20. [1] Click the flyout corner under the Save As command on the Standard tab of the Action Bar, and then [2] click the **Export** command



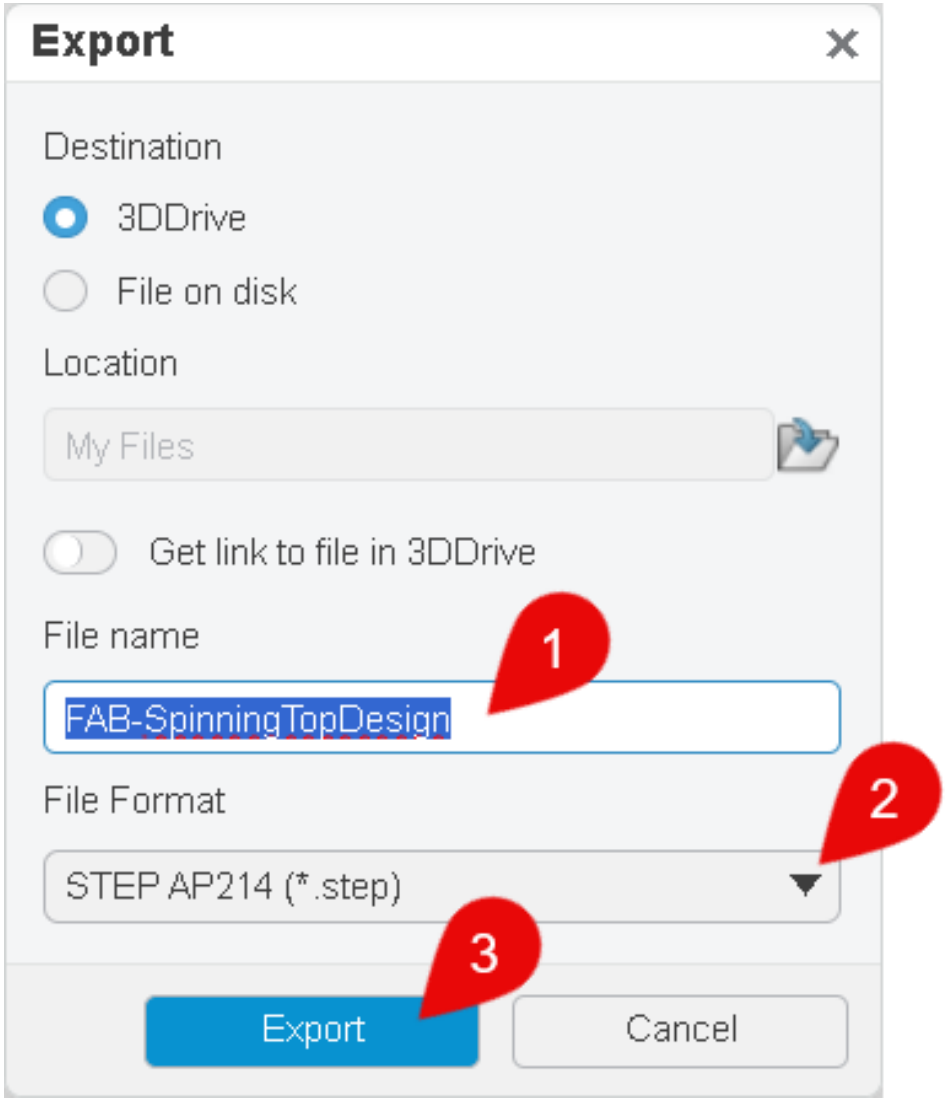
21. Click the Location folder button



22. [1] Select the folder your instructor told you to use to save your files, then [2] click **OK**



23. [1] Give the file a unique name, [2] change the format to “**STEP AP214**”, and then [3] click **Export**



Congratulations!

You’re ready to 3D print your die!

See your teacher for further instruction!