



# Intro to 3D Modeling Syllabus

## Instructor Information

### Instructor

Dr. Nicole Caldwell

### Email

Parents can e-mail  
[nicolekaldwell@gmail.com](mailto:nicolekaldwell@gmail.com)

### Office Location & Hours

Online

## General Information

### Description

This online course provides a brief introduction to 3D modeling and design using a free web-based program called TinkerCAD. You'll learn the basics, then choose a project that you would like to create!

### Expectations and Goals

Each week, you will complete one lesson in the course and submit your work for that lesson to the instructor. Part of this course is to help you practice time management and planning, which are good skills to have for going to college or getting a job. More information about all of the course expectations is found below. I hope you have fun designing!

## Course Materials

### Required Materials

- Internet access.
- A free TinkerCAD account (please have your parent or guardian set this up):  
<https://www.tinkercad.com/>

## Course Overview

Week	Topic
Week 1	What is 3D Modeling and Design?
Week 2	TinkerCAD Basics
Week 3	Review and More Basics
Week 4	First Projects!
Week 5	More Projects!
Week 6	More Projects!
Week 7	Final Project
Week 8	Create a Portfolio

## Assignment Schedule

Week/Due Date	Topic	Assignment
Week 1 Due Sunday by 11:59 PM Central	What is 3D Modeling? (Read Class Presentation)	Create a TinkerCAD Account
Week 2 Due Sunday by 11:59 PM Central	TinkerCAD Basics	TinkerCAD Direct Starters (Learning the Basic Moves in TinkerCAD)
Week 3 Due Sunday by 11:59 PM Central	Review and More Basics	TinkerCAD Basic Skills
Week 4 Due Sunday by 11:59 PM Central	First Projects!	Make a Key Ring and Dice
Week 5 Due Sunday by 11:59 PM Central	More Projects!	Complete 3 Basic Projects of Your Choice
Week 6 Due Sunday by 11:59 PM Central	More Projects!	Complete 3 Basic Projects of Your Choice
Week 7 Due Sunday by 11:59 PM Central	Final Project	Final Project
Week 8 Due Sunday by 11:59 PM Central	Create a Portfolio	Portfolio of Classwork

*Please note that detailed assignment descriptions and rubrics to help you work on each assignment will be provided in the course website.*

## Class Planner

Use this to make a study and work plan for each week in the course. Check off each task as you complete it, making sure to have all tasks completed by the due date for each week of the class.

Week	Tasks
Week 1	<input type="checkbox"/> Read the Class Introduction Presentation <input type="checkbox"/> Create a TinkerCAD Account
Week 2	<input type="checkbox"/> Read Assignment Descriptions and Rubric <input type="checkbox"/> "Place It" Tutorial <input type="checkbox"/> "View It" Tutorial <input type="checkbox"/> "Move It" Tutorial <input type="checkbox"/> "Rotate It" Tutorial <input type="checkbox"/> "Size It Up" Tutorial <input type="checkbox"/> "Group It" Tutorial <input type="checkbox"/> "Align It" Tutorial <input type="checkbox"/> Submit Assignment Document to Dr. Caldwell
Week 3	<input type="checkbox"/> Read Assignment Descriptions and Rubric <input type="checkbox"/> "Learning the Moves" Tutorial <input type="checkbox"/> "Camera Controls" Tutorial <input type="checkbox"/> "Scale, Copy, and Paste" Tutorial <input type="checkbox"/> "Creating Holes" Tutorial <input type="checkbox"/> Submit Assignment Document to Dr. Caldwell
Week 4	<input type="checkbox"/> Read Assignment Descriptions and Rubric <input type="checkbox"/> Key Ring Project <input type="checkbox"/> Dice Project <input type="checkbox"/> Dice from Scratch Project <input type="checkbox"/> Submit Assignment Document to Dr. Caldwell
Week 5	<input type="checkbox"/> Read Assignment Descriptions and Rubric <input type="checkbox"/> Complete Project 1 <input type="checkbox"/> Complete Project 2 <input type="checkbox"/> Complete Project 3 <input type="checkbox"/> Submit Assignment Document to Dr. Caldwell
Week 6	<input type="checkbox"/> Read Assignment Descriptions and Rubric <input type="checkbox"/> Complete Project 1 <input type="checkbox"/> Complete Project 2 <input type="checkbox"/> Complete Project 3 <input type="checkbox"/> Submit Assignment Document to Dr. Caldwell
Week 7	<input type="checkbox"/> Read Assignment Descriptions and Rubric <input type="checkbox"/> Complete Final Project <input type="checkbox"/> Submit Assignment Document to Dr. Caldwell
Week 8	<input type="checkbox"/> Read Portfolio Information Presentation <input type="checkbox"/> Complete Portfolio <input type="checkbox"/> Submit Portfolio to Dr. Caldwell

# Weekly Planner - Introduction to 3D Modeling

## Week 1

Print one of these for each week in the course. Write which tasks from the syllabus that you will complete each day. You don't have to work on something every day, it is okay for some days to be left blank. Just make sure everything is turned in by the due date.

Monday:
Tuesday:
Wednesday:
Thursday:
Friday:
Saturday:
Sunday:

# Weekly Planner - Introduction to 3D Modeling

## Week 2

Print one of these for each week in the course. Write which tasks from the syllabus that you will complete each day. You don't have to work on something every day, it is okay for some days to be left blank. Just make sure everything is turned in by the due date.

Monday:
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Sunday:

# Weekly Planner - Introduction to 3D Modeling

## Week 3

Print one of these for each week in the course. Write which tasks from the syllabus that you will complete each day. You don't have to work on something every day, it is okay for some days to be left blank. Just make sure everything is turned in by the due date.

Monday:
Tuesday:
Wednesday:
Thursday:
Friday:
Saturday:
Sunday:

# Weekly Planner - Introduction to 3D Modeling

## Week 4

Print one of these for each week in the course. Write which tasks from the syllabus that you will complete each day. You don't have to work on something every day, it is okay for some days to be left blank. Just make sure everything is turned in by the due date.

Monday:
Tuesday:
Wednesday:
Thursday:
Friday:
Saturday:
Sunday:

# Weekly Planner - Introduction to 3D Modeling

## Week 5

Print one of these for each week in the course. Write which tasks from the syllabus that you will complete each day. You don't have to work on something every day, it is okay for some days to be left blank. Just make sure everything is turned in by the due date.

Monday:
Tuesday:
Wednesday:
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Friday:
Saturday:
Sunday:



# Weekly Planner - Introduction to 3D Modeling

## Week 6

Print one of these for each week in the course. Write which tasks from the syllabus that you will complete each day. You don't have to work on something every day, it is okay for some days to be left blank. Just make sure everything is turned in by the due date.

Monday:
Tuesday:
Wednesday:
Thursday:
Friday:
Saturday:
Sunday:

# Weekly Planner - Introduction to 3D Modeling

## Week 7

Print one of these for each week in the course. Write which tasks from the syllabus that you will complete each day. You don't have to work on something every day, it is okay for some days to be left blank. Just make sure everything is turned in by the due date.

Monday:
Tuesday:
Wednesday:
Thursday:
Friday:
Saturday:
Sunday:

# Weekly Planner - Introduction to 3D Modeling

## Week 8

Print one of these for each week in the course. Write which tasks from the syllabus that you will complete each day. You don't have to work on something every day, it is okay for some days to be left blank. Just make sure everything is turned in by the due date.

Monday:
Tuesday:
Wednesday:
Thursday:
Friday:
Saturday:
Sunday: