



## New York Mills High School

### Curriculum Document

Curriculum Area: 49

Course Name: 3D Tech and Design

Common Course Catalog Number: 21018

Length of Course: Semester

Pre-Requisite: None

Grade Level: 10-12

Limit: 15

**Standard:** Art HS Medial Art Minnesota Academic Standards in Education

Foundations

Create

Present

Respond

Connect

### Course Description:

Ever wonder how to develop your ideas? Sculptgl, Tinkercad, Fusion 360 and this course will help you to quickly develop quality projects. In this course you will learn how to sculpt your idea, then move to parts and assembly modeling, and, as a final step, create drawings, renderings and prepare for manufacturing on a 3D printer.

### Essential Learner Outcomes (5 to 7)

What will students know and be able to do as a result of this course?

- Student will demonstrate and respond to the elements and principles in media art.
- Student will demonstrate media art techniques in different software.
- Student will generate an original media art; imagine, plan and explore
- Student will generate an original media art for a specific purpose
- Student will revise media art and/or a presentation based on others feedback or self-reflection
- Student will assemble and prepare media art presentations for public viewing.
- Student will explain how his/her personal choices impact their media artwork
- Student will use knowledge of social, cultural, historical or personal life to make their media art meaningful

### Units of Study:

\* Monster (sculptgl)

\* Game Unit; Checkers, board piece and Chess

\* CO2 Cars (tinkercad)

\* Planters

\* Cookie cutters (Illustrator and Photoshop)