



Curriculum Night: 6th Grade Design Mr Goad

Willows Preparatory School 2018-19

I.B. Learning Aims & Goals

- Enjoy the design process, develop an appreciation of its elegance and power
- Use and apply technology effectively to access, process, and communicate information, model and create solutions, and to solve problems
- Appreciate past, present, and emerging design within cultural, political, social, historical, and environmental contexts
- Develop respect for others' viewpoints and appreciate alternative solutions to problems

I.B. Learning Objectives

IB learning objectives are determined across four objective criteria:

- Objective A: Inquiring and analyzing
- Objective B: Developing ideas
- Objective C: Creating the solution
- Objective D: Evaluating

I.B. Grading Criteria

Students will receive a local grade which is percentage based and letter referenced.

Additionally, all IB objective criterion will be formally assessed once every trimester. These will be informally assessed on a continual basis. The success in the objective criterion is measured on a 0-8 scale. Limited competency is graded 1-2, adequate 3-4, substantial 5-6 and excellent 7-8.

A cumulative score is calculated for the year using the criterion scores and this is referenced on a scale of 1-7.



The following is an outline of the content for the 6th Grade Design Course.

Trimester 1 – Basic Computer Skills

Students will become familiar using their laptops and the design cycle as tools to solve design challenges. They will be introduced to basic Microsoft Office applications and work with 3-D modeling and printing software.

Major Project: Grand Prix

Trimester 2 – Computer History and Web Design

Students will become familiar with basic computer history and learn to develop websites. They will work with HTML, CSS, and JavaScript.

Major Project: Student Website

Trimester 3 – Programming Fundamentals

Through block-coding, students will become familiar with basic programming fundamentals including: variables, data types, operators, control flow, functions, and debugging. Students who advance quickly will be encouraged to use python for assignments.

Major Project: Capstone Application