



Curriculum Night: 8th Grade Design Devin Saywers

Willows Preparatory School 2017-18

I.B. Learning Aims & Goals

- Create mobile and web applications for use in real-world scenarios.
- Understand how to effectively troubleshoot and use peer testing to evaluate design solutions.
- Draw connections and synthesize concepts between different disciplines and concepts.
- Interpret trends in data/society using effective research techniques and programming concepts.

I.B. Learning Objectives

IB learning objectives are determined across four objective criterion:

- Objective A: Knowing and Understanding
- 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 twice throughout the year. 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. Further detail, specific to Mathematics, regarding the grade descriptors is available in OneNote

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 8th Grade Design Course. Projects and homework will be assigned to help students meet the IB learning aims and goals.

Trimester 1

App architecture and design, creating application user interfaces, design testing, using simple APIs

Trimester 2

Gathering, storing, accessing, and visualizing data, experimental design, data analysis

Trimester 3

Basics of internet communication protocols, using a Linux operating system, integrating sensors with the internet