

TEALS Support Models:

- ✓ Co-teach
- ✓ Lab Support
- ✓ Classroom Enrichment

AP Computer Science A

AP Computer Science A is equivalent to a first-semester, college-level course in computer science for CS majors. The course introduces students to computer science using the industry-standard Java programming language and presents fundamental topics that include problem solving, algorithms, and abstraction.

AP CS A, much like the intro course was adapted for high schools from college-level curricula and has been successfully

implemented in hundreds of high schools. AP CS A introduces students to the importance of resilience and project planning through the implementation of several large-scale and complex projects. The daily student-centered lesson plans emphasize practice through working on problems, group activities, labs, and projects that help integrate the learning objectives.

TEALS AP CS A offers an approachable, project-based curriculum.

TEALS: AP CS A Overview

Unit	Project
1: Intro to Java and static methods	Family letters & the house that Jack built
2: For loops and data types	Hourglass
3: Conditionals, while loops, string parsing	FracCalc
4: Arrays and arraylists	AP magpie activity
5: Objects	AP picture lab
6: Inheritance, polymorphism, interfaces	Text excel, shapes, sports manager
7: Searching and sorting	AP elevens activity
8: Recursion	Tower of Hanoi, MergeSort
9: AP review	Barron AP review
10: After the AP exam	AI, Space battle arena, TEALS Minecraft modeling

97%

of teachers report increased CS content knowledge and the ability to teach with greater independence after **two years with TEALS**

350

high schools

29

states + DC

12,000

students taught in the **2017-18** school year