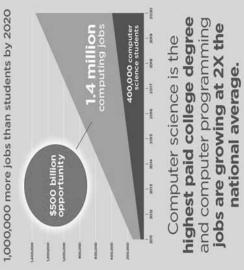
What is the Computer Science Academy (CSA) ?

- through inquiry and projects. computer science concepts Courses focus on learning
- Themes and practices include the problem-solving using technology and impact of computer science. as a tool, and seeing the relevance creative nature of computing,
- same students. The teachers work to Computer Science class and their build projects and skills across the **English class together** with the curriculum – together we form a small learning community. Students in CSA take their
- works as computing professionals. College and career skills are built into the courses to prepare students for higher education and future



Why computer science? Why join CSA?

- Computational thinking is important across ALL subjects, not just computer science.
- More than 50 percent of all math and science jobs are for computer scientists.
 - Computer science jobs are the highestoaying jobs for new graduates.
- aster than the number of computer science Computing jobs are growing 3 times
 - CSA field trips to local universities, tech companies, game companies, and graduates.
- Guest speakers from the tech industry to hackerspaces.
- alk about various subfields within computer 1,000,000 more jobs than students by 2020



characteristics. This policy applies to all acts related to school activity or school Non Discrimination Policy: San Francisco Unified School District. District programs, parental status, physical or mental disability, sex, sexual orientation, gender, gender identity, or gender expression; the perception of one or more of such characteristics; or association with a person or group with one or more of these actual or perceived attendance occurring within a school under the jurisdiction of the superintendent of ectivities, and practices shall be free from unlawful discrimination, harassment intimidation, and bullying of any pupil based on the pupil's actual race, color the school district (Education Code 234.1).



Creative Problem Solving for the 21st Century

REPRESENT & ANALYZE DATA CE FUN! EXPLORINGCS. SOLVE PROBLEMS B

lives. If you can create technology touches technology, you can change the world." cars to medicine, every part of our "From phones to

HUMAN / COMPUTER INTERACTION

Susan Wojcicki

For more information contact: 415-749-3430 x 3111 tand@galileoweb.org csinquiry.org Danny Tan

Exploring Computer Science (10th Grade)

- Computers and the Internet
- Societal impacts of

computing

- Algorithms and abstraction
- Connections between Math and

Computer Science

- Programming
- Models of Intelligent

Behavior

- Web page design and development
- Data and Information
- Electronics/Robotics



Computer Science Principles (11th Grade)

Fundamental computer

programming concepts and skills

 Computer programming from practical perspective

• AppInventor & Mobile App Design

Python programming language

Hardware and Software

Abstraction

Design Cycle

Creative Computing

analysis, and algorithm design Problem-solving, problem

 Analysis of Data, Algorithms, and the Internet

Global Impacts of Computing

software development industry · Professional norms of the

 Career opportunities in programming

Advanced Placement Computer Science A (12th Grade)

• Java Programming Language

Object-Oriented Program Design

Program Implementation

Program Analysis

Standard Data Structures

Standard Algorithms

Computing in Context



	ade	n Literature)	ence A (CSA)		AP Calculus	AP Calculus AP Physics	AP Calculus AP Physics Economics
Trgilced /	12 th Grade	English/European Literature (CSA)	AP Computer Science A (CSA)		Pre-Calculus or AP Calculus	Pre-Calculus or AP Calculus AP Chemistry or AP Physics	Pre-Calculus or AP Calcu AP Chemistry or AP Physi Democracy & Economics
משווף ביא שרמשבור שרוופממזה (ובקמזו המ כשה כמו שבש וובנודופורכת)	11 th Grade	American Literature (CSA)	Computer Science Principles (CSA)		Algebra 2	Algebra 2 Physics	Algebra 2 Physics US History
	10 th Grade	English 2 (CSA)	Exploring Computer Science (CSA)	_	Geometry	Geometry Chemistry	W
	9 th Grade	English 1	Computer Art		Algebra 1	Algebra 1 Biology	Algebra 1 Biology College/Career & Health Ed