

Computer Science

Downers Grove South HS

COMPUTER SCIENCE IS...

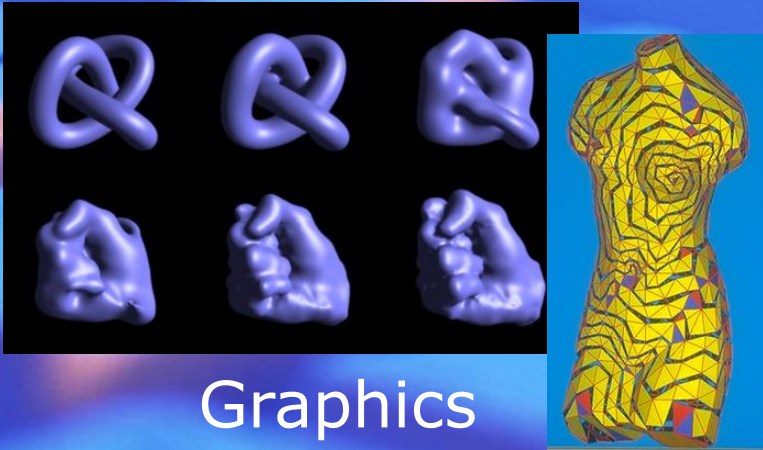
- Logical Problem Solving
- Understanding People
- Communicating Ideas
- Working in Teams
- Creating Solutions with Computers



WHAT COMPUTER SCIENCE WAS IN THE 70's AND 80's...



WHAT COMPUTER SCIENCE IS TODAY...



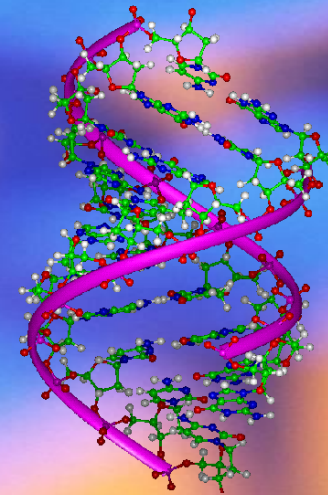
Graphics



Virtual Environments



Wearable Computing



Bioinformatics

WHAT COMPUTER SCIENCE IS TODAY...

Robotics



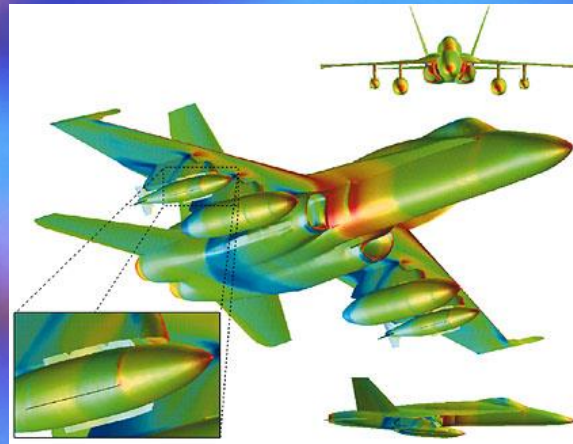
Ubiquitous Computing



Databases



Information Security



High Performance Simulation

WHAT FIELDS NEED COMPUTER SCIENCE?

- mathematics
- biology/bioinformatics
- information security
- law
- law enforcement
- training simulations
- video games
- graphic design
- music technology
- environmental research
- psychology
- robotics
- medicine
- neurology
- bioengineering
- telecommunications
- assistive technology
- education
- computational modeling
- agriculture

COMPUTER SCIENCE @ DGS

- Computer Science 1
- Computer Science 2
- **AP Advanced Computer Science**



AP COMPUTER SCIENCE



- Full year course
- Learn the Java programming language
- Explore advanced programming concepts
- Take the AP Exam and earn college credit
- Earn 8 HRS of DUAL CREDIT through COD



AP COMPUTER SCIENCE

- 60% of students taking APCS are taking their first computer science course.
- We start with the basics, so no one is behind.
- The 1-year HS course is equivalent to a 1-semester college CS course.
- A HS Computer Science class is an easier introduction than taking it for the first time in college.

NOT THE TYPICAL AP WORKLOAD



- All of the computer work is done in class.
- The class is very hands-on...working on computers every day.
- Outside work is mostly reading assignments and some online problem solving.





THE END

Thank you for your time