APCSP Computer Science 2024-2025 Semester 1

| [◄ July](#July_2021) | **August 2024** | | | | | | [September ►](#September_2021" \o "Jump to September) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sun** | **Mon** | **Tue** | **Wed** | **Thu** | **Fri** | | **Sat** |
| 5/9/24  Draft based on 23-24  Need to check PR  TEST DATE  UPDATE IN CODE.ORG for each lesson. | 29  District Prof. Learning Day | 30  District Prof. Learning Day | 31  Teacher Workday | 1  Prof. Learning Day | 2  Prof. Learning Day | | 3 |
| 4 | 5  Prof. Learning Day | 6  Prof. Learning Day | 7  Teacher planning day | 8  **First Day of School**  **Unit 0 – Introduction to CTE**  **-procedure/expt.** | 9  **Unit 0 – Introduction to CTE**  **Intro APCSP and AP exam**  **-about me project??**  **-Goal** | | 10 |
| 11 | 12  Week 1  **Unit 0 – Introduction to CTE**  **Intro APCSP and AP exam**  **-Day 3 p59** | 13  **Unit 1 - Digital Information.**  Lesson 1:Welcome to CSP  Lesson 2: Representing Information | 14  **Unit 1 - Digital Information**  Lesson 3: Circle Square Patterns Lesson 4: Binary Numbers | 15  **Unit 1 - Digital Information**  Lesson 4: Binary Numbers | 16  **Unit 1 - Digital Information**  Lesson 5: Overflow and Rounding | | 17 |
| 18 | 19  Week 2  **Unit 1 - Digital Information**  Lesson 6: Representing Text | 20  **Unit 1 - Digital Information**  Lesson7: Black and White Images  Quiz-Binary | 21  **Unit 1 - Digital Information**  Lesson 8: Color Images | 22  **Unit 1 - Digital Information**  Lesson 9: Lossless Compression | 23  **Unit 1 - Digital Information**  Lesson 10: Lossy Compression | | 24 |
| 25 | 26  Week 3  **Unit 1 - Digital Information**  Test review | 27  Lesson 14: Assessment Day. | 28  **Unit 1 - Digital Information**  Lesson 11: Intellectual Property  Progress Report 1???? | 29  **Unit 1 - Digital Information**  Lesson 12: Project Digital Information Dilemmas Part 1 | | 30  **Unit 1 - Digital Information**  Lesson 12: Project Digital Information Dilemmas Part 1 | 31 |

| [◄ August](#August_2021) | **September 2024** | | | | | [October ►](#October_2021" \o "Jump to October) |
| --- | --- | --- | --- | --- | --- | --- |
| **Sun** | **Mon** | **Tue** | **Wed** | **Thu** | **Fri** | **Sat** |
| 1 | 2  Holiday (Labor Day)  Week 4 | 3  **Unit 2 - The Internet**  Lesson 1: Welcome to the Internet | 4  **Unit 2 - The Internet**  Lesson 2: Building a Network | 5  **Unit 2 - The Internet**  Lesson 3: Need for Addressing | 6  **Unit 2 - The Internet**  Lesson 4: Routers and Redundancy | 7 |
| 8 | 9  Wk 5  **Unit 2 - The Internet**  Lesson 5: Packets | 10  **Unit 2 - The Internet**  Lesson 6: HTTP and DNS | 11  **Unit 2 - The Internet**  Lesson 7: Project Internet Dilemmas Part 1 | 12  **Unit 2 - The Internet**  Lesson 8: Project Internet Dilemmas Part 2 | 13  **Unit 2 - The Internet**  Lesson 9: Assessment Day  Progress Report 2??? | 14 |
| 15 | 16  Wk 6  **Unit 3 – Intro to App Design**  Lesson 1: Intro to Apps | 17  **Unit 3 – Intro to App Design**  Lesson 2: Introduction to Design Mode | 18  **Unit 3 – Intro to App Design**  Lesson 3: Project - Designing an App - Parts 1-2 | 19  **Unit 3 – Intro to App Design**  Lesson 4: Project - Designing an App - Parts 2  Homework:  Lesson 5: The Need for Programming languages | 20  **Unit 3 – Intro to App Design**  Lesson 6: Intro to Programming | 21 |
| 22 | 23  Week 7  **Unit 3 – Intro to App Design**  Lesson 7: Debugging | 24  **Unit 3 – Intro to App Design**  Lesson 8: Project - Designing an App - Parts 3-5 | 25  **Unit 3 – Intro to App Design**  Lesson 9/10: Project - Designing an App - Parts 3-5  (Continued) | 26  **Unit 3 – Intro to App Design**  Lesson 11: Assessment Day | 27  Professional Learning - No Students | 28 |
| 29 | 30  Week 8  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 1: Variables Explore |  | | | | |

| [◄ September](#September_2021) | **October 2024** | | | | | | | | [November ►](#November_2021" \o "Jump to November) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sun** | **Mon** | **Tue** | | **Wed** | | **Thu** | | **Fri** | **Sat** |
|  | **Week 8** | 1  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 2: Variables Investigate | | 2  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 3: Variables Practice | | 3  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 4: Variables Make | | 4  Holiday | 5 |
| 6 | 7  Week 9  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 5: Conditionals Explore  **(Bingo, flowchart)** | 8  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 6: Conditionals Investigate | | 9] **End of 1st 9 Weeks**  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 7: Conditionals Practice  Due-flowChart( game) | | 10  Holiday | | 11  Holiday | 12 |
| 13 | 14  Week 10  Holiday | 15  Teacher planning day  PSAT-11TH???? | | 16[ Term 2  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 8: Conditionals Make | | 17  **PSAT -10TH**  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 8: Conditionals Make (Continued)  Or test (unit3-4 (1-8) -MG | | 18  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 9: Functions Explore/Investigate | 19 |
| 20 | 21  week 11  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 10: Functions Practice | 22  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 11: Functions Make | | 23  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 15: Assessment Day | | 24  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 12: Project - Decision Maker App - Parts 1 | | 25  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 12: Project - Decision Maker App - Parts 2  PR 3 | 26 |
| 27 | 28  week 12  **Unit 4 - Variables, Conditionals, and Functions**  Lesson 12: Project - Decision Maker App - Parts 3 | | 29  **Unit 5 - Lists, Loops, and Traversals**  Lesson 1: Lists Explore | | 30  **Unit 5 - Lists, Loops, and Traversals**  Lesson 2: Lists Investigate | 31  **Unit 5 -** Lists, Loops, and Traversals  Lesson 3: Lists Practice |  | | |

| [◄ October](#October_2021) | **November 2024** | | | | | | [December ►](#December_2021" \o "Jump to December) | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sun** | **Mon** | **Tue** | **Wed** | **Thu** | **Fri** | | **Sat** | |
|  |  |  |  |  | 1  Holiday | | 2 | |
| 3 | **4**  Week 13  **Unit 5 -** Lists, Loops, and Traversals  Lesson 4: Lists Make | 5  **Unit 5 -** Lists, Loops, and Traversals  Lesson 5: Loops Explore | 6  **Unit 5 -** Lists, Loops, and Traversals  Lesson 6: Loops Investigate | 7  **Unit 5 -** Lists, Loops, and Traversals  Lesson 7: Loops Practice | 8  **Unit 5 -** Lists, Loops, and Traversals  Lesson 8: Loops Make | | 9 | |
| 10 | 11  Holiday | 12 Wk 14  **Unit 5 -** Lists, Loops, and Traversals  Lesson 9: Traversals Explore | 13  **Unit 5 -** Lists, Loops, and Traversals  Lesson 10: Traversals Investigate | 14  **Unit 5 -** Lists, Loops, and Traversals  Lesson 11: Traversals Practice | 15  **Unit 5 -** Lists, Loops, and Traversals  Lesson 12: Traversals Make | | **16** | |
| 17 | 18 Wk 15  **Unit 5 -** Lists, Loops, and Traversals  Lesson 12: Traversals Make-DUE | 19  **Unit 5 -** Lists, Loops, and Traversals  Lesson 18: Assessment Day | 20  **Unit 5 -** Lists, Loops, and Traversals  Lesson 13:  Project - Hackathon - Part 1 | 21  **Unit 5 -** Lists, Loops, and Traversals  Lesson 14:  Project - Hackathon - Part 2 | 22 Progress Report 4  **Unit 5 -** Lists, Loops, and Traversals  Lesson 15:  Project - Hackathon - Part 3 | | 23 | |
| 24 | 25  Thanksgiving Break | 26  Thanksgiving Break | **27**  Thanksgiving Break | 28  Thanksgiving Break | | 29 | | 30 |

| [◄ November](#November_2021) | **December 2024** | | | | |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sun** | **Mon** | **Tue** | **Wed** | **Thu** | **Fri** | **Sat** |
| 1 | 2 Week 16  **Unit 5 -** Lists, Loops, and Traversals  Lesson 16:  Project - Hackathon - Part 4 | 3  **Unit 5 -** Lists, Loops, and Traversals  Lesson 17:  Project - Hackathon - Part 5  STAAR-ENG 1 RETEST | 4  *Hackathon Project Presentations*  *(gallery walk)*  STAAR-ALG 1  RETEST | 5  U7L1-parameter and return explore  STAAR-ENG 2  RETEST | 6  U7l2\_Parameters and Return Investigate  STAAR-BIO/HS  RETEST | 7 |
| 8 | 9  U7L3-Parameters and Return Pracice | 10  U7L4-Parameters and return make | 11  Peer grade U7L4  (DG) | 12  Final Review | 13  Final Review | 14 |
| 15 | **16**  Final Review | 17  Final Exam | 18  **Exam** | 19  **Exam**  **Students Early Release** | 20  End of 2nd 9 week  **Exams**  **Students Early Release** | 21 |
| 22 | 23  **Winter break** | 24 | 25 | 26 | 27 | 28 |
| 29 | 30  **Winter break** | 31 |  | | | |