Assignment Sheet   2021-2022

Due	Assignment Description Special Instructions
8/12	Day1 assignment, see PDF on the Google Classroom.
8/13	Day2 assignment
8/16	Day3 assignment
8/18	Day4: Practice repl Day4: Practice Google Form
8/20	Day5 repl assignment that uses casting and makes you practice some printing. AP Classroom Unit 1 MCQ A Practice (15 problems) I'll post a solution video for these problems to help you work through any that you missed. Day5 Google Form practice (score 12/15 or better to get full credit).
8/23	AP Classroom Unit 1 MCQ B Practice (12 problems) (due before class starts on Monday) Again, I will post a solution video to help you figure out what, if anything, went wrong.
8/25	Unit 1 Quiz Review worksheet (completed before class starts Wednesday). I will post a key Monday after school on the Google Classroom and on my web site in the Class Worksheets folder. Day6 Unit 1 Review Google Form (part 1): score 18/24 or higher to receive full credit, see form for details. Day6 Unit 1 Review Google Form (part 2): score 1620 or higher to receive full credit, see form for details.
8/25	Unit 1 Quiz
8/25	Day7 Practice repl Day7 CoffeeDrink repl
8/27	Day8 Constructor practice repl Day8 Person class 2.2 Practice Day8 worksheet
8/30	Day9 Frog repl Day9 Scanner repl
9/1	Day10 Phone class repl Day10 Math.random() Google Form Day10 Practice repl

	Day10 Strings repl
9/3	Day11 String methods practice repl Day11 Codingbat.com (5 String-1 problems)
9/8	Day12 String practice repl Day12 String Review Google Form Day12 Unit 2 Review worksheet Day12 Google Form reviews A and B
9/10	AP Classroom Progress Check MCQ A, complete before class starts Monday. Day13 Scanner practice repl Day13 CodingBat: 3 more String-1 problems Unit 2 Review #2 worksheet Day13 Google Form Review C
Mon 9/13	Unit 2 Test
Wed 9/15	Day14 Codingbat 3 String-1 problems, post test, due Wednesday before class starts
Wed 9/15	Day15 Practice 1 repl Day15 Google Form Day15 CodingBat 3 String-1 problems, some that require if statements Day15 Practice 2 repl (ifs and booleans)
Fri 9/17	Day16 FrontBackSame repl Day16 Method Practice repl Day16 CodingBat (hasBad and atFirst in String-1) Day16 Number guessing game repl
Mon 9/20	Day17 if else practice repl Day17 if else if else practice repl Day17 number guessing re-work repl
Wed 9/22	Day18 Warmup Day18 Practice repl Day18 Google Form practice Day18 CodingBat 6 Logic-1 problems
Fri 9/24	Day19 CodingBat Logic-1 cigarParty problem as a warmup Day19 Truth tables worksheet with 3.5 compound booleans and if statements Day19 Google Form practice Day19 Phrasekey coding activity Day19 3 more CodingBat problems

Mon 9/27	Day20 password repl Day20 AP Classroom Unit 3 MCQ (21 questions), video with worked out solutions available. Finish before class starts on Wednesday.
Wed 9/29	Day21 Warmup repl Day21 Frog Race coding activity Day21 Google Form Unit 3 Review Day21 Unit 3 Review worksheet
Fri 10/1	Unit 3 Test
Mon 10/4	Watch 4.1 video on AP Classroom before class starts today
Mon 10/4	Day23 Averager repl
Wed 10/6	Day24 Warmup repl Day24 DigitSum repl Day24 Warmup redo with for loop Day24 ForMore repl
Fri 10/8	Day25 Warmup repl Day25 Practice 1 repl Day25 Practice 2 repl Day25 CodingBat Warmup-2 (3 problems: stringTimes, frontTimes, countXX)
Wed 10/13	Day26 Warmup repl Day26 minutes to days:hours:minutes Day26 pennies to other coins Day26 Nested loop practice Day26 Prime Checker
Fri 10/15	Day27 Harry Potter money Warmup repl Day27 FRQ practice worksheet (do in class) Day27 Loop practice repl
Mon 10/18	Day27 AP Classroom MCQ Unit 4 (18 questions) complete before class Monday
Tue 10/19	Day28 Review 1 repl Day28 Review 2 (hiCount) repl Day28 Review 3 (boxes) repl Day28 Review 4 (ligerCheck) repl Day28 Review 5 (grabMonth) repl Day28 Google Review form All of the above assigned Monday, due midnight Tuesday

Wed 10/20	Unit 4 Test
Fri 10/22	Day30 Frog Warmup Day30 Class playground
Mon 10/25	Day31 Student class Day31 Cat class
Wed 10/27	Day32 Warmup (Fraction) Day32 Soda class Day32 Superhero class
Mon 11/1	Day33 Warmup Google Form Day33 Cow class Day33 Bouquet class Day33 AP Classroom Progress Check Unit 5 MCQ A (this last part due by Monday before class starts.)
Wed 11/3	Day34 Sundae class Warmup Day34 Student with ID class Day34 Voter class Day34 boatFace
Fri 11/5	Day35 Warm up the chicken Day35 Broken class Day35 AP Classroom FRQ #2 Day35 AP Classroom MCQ B (before class starts on Monday)
Mon 11/8	Day36 Knife class Day36 Unit 5 Review worksheet (bring to class Wednesday, show me that you completed it and checked your answers before then; key posted on Google Classroom).
Wed 11/10	Unit 5 Test
Mon 11/15	Day38 Array Practice repl
Wed 11/17	Day39 Warmup Day39 First six Array-1 CodingBat problems Day39 Traversal Practice repl Day39 Voter array repl Day39 First three Array-2 CodingBat problems
Fri 11/19	Day40 Warmup Day40 for each loop practice

	Day40 array practice Day40 AP Classroom, first 7 Progress Check MCQ problems (do not turn in) Day40 3 more Array-2 CodingBat problems
Mon 11/29	Day41 Number Crunching repl
Wed 12/1	Day41 Welcome back half sheet, completed with answers checked and corrected before class starts on Wednesday 12/1
Wed 12/1	Day42 Warmup, Pie class Day42 Practice A through F
Fri 12/3	Day43 String array rumble warmup Day43 Unit 6 Practice #1 worksheet Day43A how many repl Day43B swap elements repl Day43 AP Classroom Unit 6 MCQ: finish (that is, do problems 8 through 14, or all of them if you haven't already done 1 through 7 which I asked you to do before Thanksgiving.) Please have these problems done before class starts on Monday. Check your answers using my posted help video.
Mon 12/6	Day44 Google Form review (get 14/14 to get full credit, do as many times as you like)
Wed 12/8	Day44 Unit 6 Practice #2 worksheet, done and corrected before class starts Wednesday.
Wed 12/8	Unit 6 Test: You may have one 3 x 5 inch card (two sided) of notes to use on the test if you want to make something to use. It has to be something that you personally have created.
Fri 12/10	Day46 Pants class repl Day46 Review 1 Google Form Day46 Friend class Day46 Final Exam Review 1 worksheet: worksheet due (already corrected) at start of class on Monday.
Mon 12/13	Day47 Review 2 Google Form Day47 Final Exam Review 2 worksheet, finish by end of class Day47 Assignment class repl

What is on the final exam? Everything we've learned so far, including:

1. Integer math (how $7/2 = 3$ not 3.5)
2. Math operators: $+$ $-$ $/$ $*$ $+=$ $-=$ $/=$ $*=$ $\%$ $\%=$ $++$ $--$
3. Strings and the methods we use:
        .length() .substring(n) .substring(n,m)   .indexOf()

      .toUpperCase() .toLowerCase()

4. Math class:

      Math.random() Math.sqrt() Math.pow(base,power)

5. Classes and objects, vocabulary (instantiation, instance of)

6. Conditional statements: if / else if / else, using == or .equals()

7. DeMorgan's law, simplifying boolean expressions

8. Iteration: for loops, while loops, for each (enhanced for) loops

9. Writing classes: defining variables, constructors, accessor methods, mutator methods, toString, creating and using objects, static variables in classes

10. arrays

      creating using "new" keyword

      creating using array initializers (for example: int[] n = { 1, 2, 3 };)

      default values

      creating and using arrays using primitive data and reference data

      traversing arrays, array algorithms

          finding duplicates

          calculating stats (max/min/ave)

          changing all elements in some way, counting how many match given criteria

Our final is Wednesday 12/15 at 11am.

Wed 1/5	Day49 ArrayList 1 repl Day49 ArrayList Google Form practice 1 Day49 ArrayList Google Form practice 2 Day49 ArrayList 2 repl Day49 Integer ArrayList repl
Fri 1/7	Day50 method practice Day50 method v main Day50 Method parameter Google Form Day50 Dup Check Day50 Frog pond
Mon 1/10	Day51 Warmup ArrayLists Day51 traversing practice Day51 chopIt method Day51 Google Form practice
Wed 1/12	Day52 Warmup Day52 linear search repl Day52 removing items repl Day52 WordGroup class repl (writing a class that contains an ArrayList) AP Classroom Unit 7 MCQ problems 1 through 9 (finish before class starts on Friday) Submit your answers on the Google Form. Do not submit in the AP Classroom, there are 9 more problems we'll do on another day.
Fri 1/14	Day53 Warmup repl Day53 7.6 Google Form practice Day53 Practice repl Day53 WordGroup sentences repl AP Classroom Unit 7 MCQ Progress complete and submit all 18 questions before class starts on Wednesday (help video is on the Day52 help video post, there is no Google Form for this half of the problems.)
Wed 1/19	Day54 Warmup repl Day54 Unit 7 Review 1 Google Form Day54 deleting repl Day54 traversing repl Day54 Unit 7 Review 1 worksheet (due at class start Friday, we'll correct it in class.)
Fri 1/21	Day54 Unit 7 Review 1 worksheet
Fri 1/21	Day55 Warmup Day55 FRQ (done in class only, if you were not present, please arrange to come to Tutorial to make this assignment up.)

	Day55 Unit 7 Review 2 Google Form Day55 Frog Party repl
Mon 1/24	Day56 Warmup repl Day56 Unit 7 Review 3 Google Form Day56 Unit 7 Review 2 worksheet (due Wednesday at start of class; please correct the worksheet before you come to class, key posts Monday 11am)
Wed 1/26	Any late, missing, make-up work is due at start of class today.
Wed 1/26	Unit 7 test. No notes will be allowed on the test. See slide deck from Monday 1/24 for tips to prepare and do your best.
Wed 1/26	Unit 7 test. No notes will be allowed on the test. See slide deck from Monday 1/24 for tips to prepare and do your best.
Fri 1/28	Day58 Warmup repl Day58 8.1 Practice Google Form Day58 Practice 1 repl Day58 Practice 2 repl
Mon 1/31	Day59 Warmup Google Form Day59 Practice 1 Day59 Practice 2
Wed 2/2	Day59 Practice 3 due by start of class
Wed 2/2	Day60 Warmup Day60 Practice 1 repl (max, min, etc.) Day60 Practice 2 repl (x marks the spot) Day60 Battleship! (due before class starts Friday)
Fri 2/4	Day61 Warmup Dot array Day61 AP Classroom Unit 8 MCQ (10 questions) Day61 Practice 1 columns Day61 2D Frog Hop Party rep (due before class starts Monday)
Mon 2/7	Day62 Warmup repl Day62 Unit 8 Google Form review 1 Day62 Practice 1 (Light objects) Day62 Unit 8 Review 1 worksheet (due at start of class Wednesday, already corrected, key will post on the Google Classroom)
Wed 2/9	Day62 Unit 8 Review 1 worksheet (due at start of class Wednesday, already corrected)
Wed 2/9	Day63 Warmup repl Day63 Unit 8 FRQ activity Day63 Practice climbingCheck repl

	Day63 Unit 8 Review 2 worksheet (due at start of class Friday, already corrected.)
Fri 2/11	Day63 Unit 8 Review 2 worksheet (due at start of class Friday, already corrected.)
Fri 2/11	Unit 8 test Friday start of class is the last moment to turn in any missing, late, or make-up work unless you have made prior arrangements with me directly. Thanks.
Wed 2/16	Day65 Warmup Day65 Google Form practice Day65 TreeFrog class
Fri 2/18	Day66 Warmup Day66 Shape Practice Day66 Store
Wed 2/23	Day67 Warmup Day67 Cars Day67 AP Classroom Unit 9 MCQ 1 through 10 Do not submit on the AP Classroom (we'll be doing the rest another day). Use the attached Google Form to show me that you did the work (it will tell you which ones you got right and wrong). Then later watch the video for help on the ones you missed.
Fri 2/25	Day68 Warmup Day68 Light class dot equals repl Day68 LightString class Day68 Finish Unit 9 MCQs 11-18 before class starts on Monday. Watch my video for help on any that you missed.
Mon 2/28	Day68 Finish Unit 9 MCQs 11-18 before class starts on Monday.
Mon 2/28	Day69 Warmup Ford Day69 Candy class Day69 Student dot equals
Wed 3/2	Day70 Warmup Day70 Unit 9 FRQs Day70 Unit 9 Google Form reviews 1 and 2 (20 questions total)
Fri 3/4	Unit 9 Test
Mon 3/7	Day72 Warmup repl Day72 Down by 2 repl Day72 printDigits repl

	Day72 addDigits repl Day72 Haysanacci repl Day72 CodingBat first 6 Recursion-1 problems
Wed 3/9	Day73 Warmup Lucas numbers Day73 addOddDigits, counts repl Day73 Google Form practice Day73 AP Classroom Unit 10 MCQs (done before class starts Friday)
Fri 3/11	Day74 Warmup oddFactorial repl Day74 next six CodingBat Recursion-1 problems Day74 Unit 10 worksheet Day74 binarySearch (not recursive) repl The worksheet and the binarySearch repl are due before class starts on Monday.
Mon 3/14	Unit 10 worksheet due at start of class (but since I was absent, I have no idea what happened… for now I have temporarily excused everyone for the worksheet; we'll deal with this after Spring Break. Day75 CodingBat next 6 Recursion-1 problems Day75 chickenLegCounter Day75 geometric sequence Day75 Warmup countDownBy5 repl
Wed 3/16	Day76 TestResult class Day76 Review, Practice 2 (ArrayLists) Day76 Review, Practice 1 (arrays)
Fri 3/18	Day77 2010 Trail FRQ on your own paper Day77 2D Array Practice repl Day77 swapHalves repl
	Spring Break
Mon 3/28	Day78 Unit 10 Review 2 worksheet (due at start of class Wednesday)
Wed 3/30	Unit 10 Quiz
Wed 3/30	Day79 array DupCheck repl Day79 ArrayList DupCheck repl Day79 arePermutations method worksheet (due before class starts Friday)