Activity Guide - MCQ Choice Board

Flashcards	Write a Video Script	Topic "Cheat Sheet"
Design Multiple Choice Questions - With a Partner	Mini Lesson	Code.org Videos + Note Catcher
AP Classroom Videos + Note Catcher	AP Classroom Multiple Choice	Concept Diagram

Access resources and directions by clicking on a study skill on the choice board.

Flashcards - Self Testing

Create Flashcards

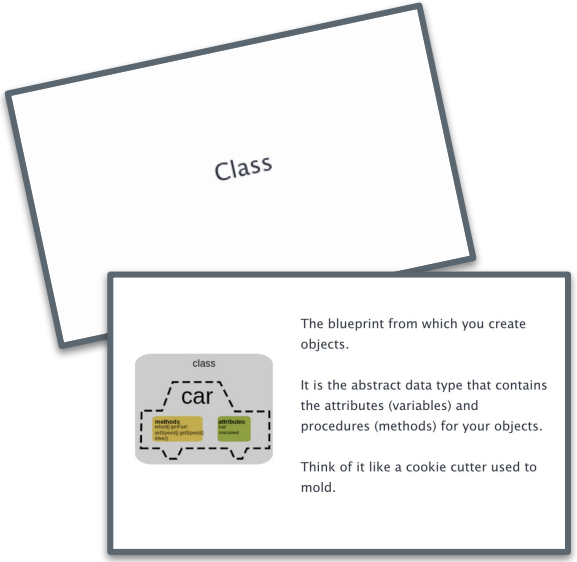
Make a card for each concept that you would like to revisit. You may choose to hand write flashcards, or create your own copy of the digital template in the resources.

When making flashcards, make sure to:

- Focus on big picture concepts. Flashcards are not a great tool for tracing code.
- Make one flashcard per concept
- Add words, pictures, and make mnemonics. Use whatever will best help you remember an idea. Comic strips are a great visual reference!

Resources

- Digital Flashcard Template
- 8 Better Ways to Make and Study Flashcards

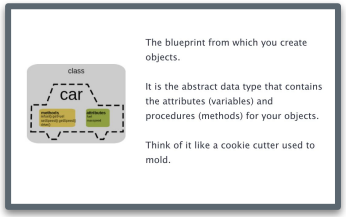


Flashcards - Self Testing

Class

Practice Recall with Flashcards

Test yourself or a friend using the cards you created



<u>When self-testing, make sure to:</u>

- Give yourself time to fully recall an idea. If you don't know what the card says, pause to try to recall other ideas that are similar to the one on your card, strengthening your relational memory.
- Take breaks. Let you mind think about something else, then return to the idea to reinforce the memory.
- As you go, create multiple piles of cards based on your recall confidence. Test yourself on the ones you are less confident with more frequently than the ones you previously got right.

Write a Video Script

The goal of this strategy is to explain the concept as clearly as possible. Assume that your audience is someone who has no CS experience.

Resources

- Video Script Template
- Sample Video Script

Do This:

1. Create a copy of the template in the resources section.
2. Complete the template, explaining the concept in your own words using simple language. Try to be more specific than simply sharing a definition! Create visualizations and examples to walk your viewers through.
3. Review your script - is there somewhere that is not as clear or where it was hard to write an explanation in your own words? Go back to your notes, class videos, or Code Studio levels to review these concepts.
4. Look for sections where you used a lot of technical terms and challenge yourself to rewrite them in ways that are friendlier for your audience.

Topic "Cheat Sheet"

Choose one topic from your study guide, and create a cheat sheet with all of the information that you feel may be relevant on the AP Exam. Cheat sheets should be written by hand in order to be a tool for effectively remembering the content later.

Resources

- What is a mnemonic?

Do This:

1. Get a single piece of paper and pen and/or pencil (optionally colored markers or highlighters)
2. Go back to previous videos, Code Studio levels, or class notes to review the content related to your topic. As you do, write only the most important things about your topic on the paper.

Have fun as you make your sheet! Use different colors for different ideas (definitions vs pseudocode vs diagrams) to help create visual indicators that you want to remember. Create mnemonic devices or write short comic strips to help you recall your work in the future.

Design Multiple Choice Questions - With a Partner

Choose one topic from your study guide, and create multiple choice questions that address key concepts about this topic.

Resources

- Multiple Choice Template

Do This:

1. Go back to previous videos, code studio levels, or class notes to review the content related to your topic. On a sticky note, identify the top three subjects that have confused you in this topic in the past.
2. Trade post its, then complete the multiple choice template, creating a question of each style for your partner - one for each subject they identified.
3. Trade multiple choice questions with your partner and attempt to answer the questions you receive.
4. If your partner gets a question wrong, coach them through the question and answer any questions they may have about the subject.

Mini Lesson - Teacher Led

Your teacher will select and lead a small group mini lesson on a particular topic.

Do This:

1. See your teacher for the mini lesson topic.
2. Consult your study guide to see if you need review on the selected topic.
3. Actively participate in the lesson.
4. Be ready to take notes and ask questions during the mini lesson.
5. After the lesson, consider updating your study plan.

Code.org Videos + Note Catcher

Rewatch Code.org concept videos from this curriculum and engage with the content by recording your thoughts in a note catcher before, during, and after.

Resources

- Code.org Videos List
- Note Catcher Template

Do This:

1. Create a copy of the Note Catcher Template or get a paper copy from your teacher.
2. Complete the "I already know.." section of the note catcher.
3. Choose the appropriate code.org video from the videos list in the resources section. While you watch, write down vocabulary, concepts, and pseudocode that you did not previous recall in the "I have learned..." section.
4. Complete the "I still wonder..." section of the note catcher.
5. Ask a peer for support with your remaining questions. Write down the answers next to the questions as you find them.

AP Classroom Videos + Note Catcher

Watch an AP Daily Video and engage with the content by recording your thoughts in note catcher before, during, and after.

Resources

- AP Classroom
- AP Daily Videos List
- Note Catcher Template

Do This:

1. Create a copy of the Note Catcher Template.
2. Complete the "I already know.." section of the note catcher.
3. Log on to AP Classroom and watch the AP Classroom Video that best relates to questions that you would like to review. While you watch, write down vocabulary, concepts, and pseudocode that you did not previous recall in the "I have learned..." section.
4. Complete the "I still wonder..." section of the note catcher.
5. Ask a peer for support with your remaining questions. Write down the answers next to the questions as you find them.

AP Classroom Multiple Choice

Complete multiple choice questions in AP Classroom that are tailored to a topic of your choosing.

Resources

- AP Classroom
- AP Daily Videos List

Do This:

1. Log on to AP Classroom and complete the Progress Check that relates to the topic you would like to study.
2. After you have completed the quiz, make sure to read through the answer justifications to understand why you may have gotten a question wrong.
3. Review the AP Classroom Video that best relates to questions that you would like to review.

Concept Diagram

Create a visual diagram to illustrate the relationships between different ideas within a topic or the course.

Resources

- **What is a Concept Map?**

Do This:

1. Get a single piece of paper and pen and/or pencil (optionally colored markers or highlighters).
2. Write a single subject in the center of the page. Add items to the map that relate to the center idea. Push yourself to think of *everything* that relates:
    - How does this subject relate to object-oriented programming or Java?
    - What situations or scenarios might it be used in?
    - How could it be used to make more complex programs?
3. Add colors, bold lines, arrows, etc to indicate the relationship between the new additions and the original idea.