AP® Computer Science: Unit 08 Checklist

Getting Started with Objects
☐ I created the three Unit 08 subfolders: Documents, Lessons, and Assessments.
☐ I printed the Unit 08 Checklist.
☐ I completed the Gas Mileage Record Sheet.
☐ I completed the Home Electricity Bill Record Sheet.

Real World Objects
☐ I understand the significance of the Java Virtual Machine.
☐ I can explain the difference between classes and objects.
☐ I can identify the attributes and behaviors of objects.

Instances of a Class
☐ I understand the concept of top-down design.
☐ I understand the concept of procedural abstraction.
☐ I can write method declarations.

Default Constructors
☐ I can write programs with default constructors.
☐ I can instantiate objects with default constructors.
☐ I know how to create and interpret a Class diagram.
☐ I distinguish between procedural and object-oriented programming.

Discussion Topic
☐ I have a general understanding of how computer models are created and used.
☐ I participated in the online discussion.
☐ I registered to participate in the climateprediction.net project.

Constructors with Parameters
☐ I can write programs with constructors that take parameters.
☐ I can instantiate objects and initialize private instance variables.

Overloading Methods and Using Two Classes
☐ I can write overloaded methods.
☐ I can design and write programs that use two classes.

Constructing Multiple Objects
☐ I can instantiate multiple objects of a class.

Arrays of Objects
☐ I can write programs that store objects in an array data structure.

Javadocs
☐ I can document a class with the javadocs utility.

ArrayLists I
☐ I can explain the difference between an array and an **ArrayList** data structure.
☐ I can write programs with simple numeric or String **ArrayLists**.

ArrayLists II
☐ I can write programs with **ArrayLists** that instantiate multiple objects.

Challenge Program
☐ I can write an object-oriented program.
☐ I can explain the importance of computer models.

Checkpoint
☐ I can write a program that models a simple real-life situation.

Exam
☐ I have reviewed for my Unit 08 Exam.