

ACPSD FAA sUAS Pilot Course Lesson Plan

COURSE:

Engineering Design and Development (Honors)

TEACHER:

Jason D. Redd

DURATION:

80 Days

STANDARDS:

This course connects to standards in the following:

- Code of Federal Regulations, Title 14, Chapter 1, Subchapter F, Part 107

COURSE OVERVIEW:

This course was developed by Advanced Aerial Education (AAE), copyright © 2020. As you progress through this course, you will advance through five levels of training in preparation for your small Unmanned Aircraft System (sUAS) Part 107 FAA certification exam. The levels of training are: Rookie, Technician, Administrator, Operator, and Pilot. Due to copyright laws, for more detail (including Learning Objectives and Essential Questions), see the Learning Management System (LMS) for all online course content and resources.

LEARNING OBJECTIVES:

Students will be able to:

- Demonstrate knowledge of a FAA remote pilot by safely operating a small Unmanned Aircraft System (sUAS) and earning their FAA Remote Pilot's License.
- Demonstrate knowledge of the FAA Remote examination Airman Certification Standard by passing the FAA exam.
- Demonstrate flight planning and safe operation of a UAS through a practical examination.
- Understand how to make good aeronautical decisions and manage risk of UAS operations.
- Understand how data programs are used to process data gathered with a UAS.
- Demonstrate knowledge of technical and operational requirements for the drone.
- Operate a small drone in a controlled environment.

ESSENTIAL QUESTIONS:

Students will keep considering:

- What do you need to know in order to pass the small Unmanned Aircraft System (sUAS) Part 107 FAA certification exam?

EQUIPMENT / MATERIALS / RESOURCES:

Students will need or utilize:

- ☒ Computer / Device
- ☒ Internet Access
- ☒ Course Materials

AGENDA / ACTIVITIES / INSTRUCTIONAL PROCEDURES:**Teacher Activity (Introduction to New Material)**

The teacher will:

- Review the Learning Objectives and Essential Questions for the lesson (at the beginning and throughout).
- Lead a class discussion about the Learning Objectives and Essential Questions for the lesson.
- Provide an overview of assignments that will be worked on throughout the lesson.
- Demonstrate expectations / skills.
- Provide guidance as student begin/continue/complete the ACPSD FAA sUAS Pilot Course.

Guided Practice

The teacher will:

- Review agenda, learning objectives, and essential questions daily.
- Lead students to recall prior knowledge / experience to make connections to new content.
- Introduce content to be learned.
- Clarify and check for understanding by asking open-ended questions (or by some other type of formative assessment) throughout instruction. Reteach material as needed.
- Pace the classroom instruction to clarify misunderstanding and provide opportunities for student feedback.
- Introduce new content to be learned and how it connects to learning objectives and answers some (or all) of the essential questions.
- Demonstrate skill practices students will gain from this lesson.
- Demonstrate assignment(s) outcome expectations.
- Review resources and equipment needed to problem-solve student assignments.
- Share safety instructions to students. *Saf*

ASSESSMENTS:

Checks for Understanding (Formative and/or Summative):

- ☒ ACPSD FAA sUAS Pilot Course Modules
- ☒ Assignment(s) / Homework
- ☒ Bell Ringer(s)
- ☒ Class Participation
- ☒ FAA Part 107 sUAS Exam
- ☒ Module Quizzes
- ☒ Practical Skill Assessments
- ☒ Student Reflection
- ☒ Teacher Observation

TEACHER REFLECTION / ADDITIONAL NOTES:
