

King Schools sUAS (Drone) Study Guide

You will use this document as your guide to prepare for the FAA Unmanned Aircraft Systems (UAS) Drone Knowledge Test.

There are two components you need study to prepare for your exams.

1. *King Schools Private Pilot Ground School and Test Prep Course*
2. Part 107 of the Federal Aviation Regulations titled "Small Unmanned Aircraft Systems"

Using your *King Schools Private Pilot Ground School and Test Prep Course*, you only need to study the subject areas that are listed below.

First, let's explain the terminology we use to identify and find lessons in the course. We use three terms; **Labs**, **Lesson Groups** and **Lessons**. The **Labs** are the main chapters in the course. The **Lesson Groups** are groups of lessons found inside the **Lab**. The **Lessons** are the individual video and review questions on a specific topic nested inside the **Lesson Group**.

The **Labs** you need to study are outlined in green.



Inside each **Lab**, there are **Lesson Groups**.

Night Instruments	Alphabet Soup Airspace Special Use Airspace Weather Minimums	
Night Instruments	Sectional Charts	Airspace & Weather Minimums

After you select the **Lesson Group**, you will select the individual **Lesson** to study.

Alphabet Soup Airspace
Lesson Menu

- Airspace System Overview**
Completion Date: 2/10/2016
- Controlled or Uncontrolled**
- Using Class G and Class E Airspace**
- Class D Airspace Details**
- Communications in Class D Airspace**
- Class C Airspace Details**
- Class C Airspace Equipment and Communications**
- Class B Airspace Details**
- Class B Airspace Requirements**
- Class A Airspace Details**

 

Below is the list of subjects you need to study broken out by **Lab**, **Lesson Group** and **Lesson**.

LAB

Aerodynamics

Lesson Group

Aerodynamic Principles

Lessons

Forces on an Aircraft

Lift

Angle of Attack and Stalls

Lesson Group

Practical Aerodynamics

Lessons

Load Factor

Figuring Load Factor

LAB

Sectional Charts

Lesson Group

Time and Places

Lessons

Aviation Time

Latitude and Longitude

Latitude and Longitude for Your Location

Airports

Sectional Chart Details

More Sectional Chart Details

LAB

Airspace & Weather Minimums

Lesson Group

Alphabet Soup Airspace

Lessons

Airspace System Overview

Controlled or Uncontrolled

Using Class G and Class E Airspace

Class D Airspace Details

Communications in Class D Airspace

Class C Airspace Details

Communications in Class D Airspace

Class B Airspace Details

Class B Airspace Requirements

Lesson Group

Special Use Airspace

Lessons

Restricted Areas and Warning Areas

Military Operations Areas and Alert Areas

Military Training Routes

Temporary Flight Restrictions

National Wildlife Refuges

Flying Around Washington D.C.

Lesson Group

Weather Minimums

Lessons

Flying Below 10,000 Feet MSL in Uncontrolled Airspace
Flying Below 10,000 Feet MSL in Controlled Airspace
Drawing Your Memory Aid
Using Airports in Controlled Airspace
Applying VFR Weather Minimums Around the Airport
Special VFR Operations

LAB

Communications and Radar Services

Lesson Group

Aviation Communications

Lessons

Airport Terminal Information Services (ATIS)
Communications Procedures
CTAF, UNICOM and Traffic Advisories

LAB

Flight Operations

Lesson Group

Flight Plans and Publications

Lessons

Flight Plans
Using the Chart Supplement
Chart Supplement – Radar and Communications
Chart Supplement – Traffic Patterns
Advisory Circulars and NOTAMS

Lesson Group

Vision and Other Physiological Factors

Lessons

Avoiding Other Aircraft
Near Midair Collisions (NMAC)
Hypoxia and Hyperventilation

Lesson Group

Airport Operations

Lessons

Airport Lighting
Airport Signs
Taxiway Markings
Runway Markings

Lesson Group

Aeronautical Decision Making

Lessons

Risk Elements
Common Behavioral Traps

LAB

Weather

Lesson Group

Weather Hazards

Lessons

Thunderstorms

Weather Advisories

Lesson Group

METAR/TAF

Lessons

Surface Observations

TAF – Format

TAF – From Grouping

TAF – Becoming Grouping

TAF – Winds, Sky Cover, and Significant Weather

Lesson Group

Area Forecasts and Winds Aloft Forecasts

Lessons

Winds and Temperature Aloft Forecasts

Area Forecasts – Overview and Hazards

Synopsis and VFR Clouds/Weather

Sky Conditions and Obstructions to Vision

Lesson Group

Weather Charts and Pilot Reports

Lessons

Weather Depiction Charts – VFR

Weather Depiction Charts – IFR/MVFR

Low Level Prognostic Charts – Weather and Fronts

Low Level Prognostic Charts – Turbulence and Freezing Level

LAB

Aircraft Performance

Lesson Group

Pressure and Density Altitude

Lessons

Pressure Altitude

Density Altitude

Calculating Pressure Altitude

Calculating Density Altitude

Change in Density Altitude with Temperature

LAB

Weight and Balance

Lesson Group

Weight and Balance Principles

Lessons

Weight and Balance Principles

Formulas

Companion App

While your course works on an iPhone, iPad, Mac , PC or any device with an Internet connection, you can download the referenced **Labs** while connected to the Internet and study them while offline. Just click on **Companion App** on the main menu of your course. Start the app and login to your iLearn account. All your course progress will be synced when you reconnect to the Internet.

Required Additional Study Material

After viewing the lessons and reviewing the end of lesson questions from the above list, you will need to study Part 107 of the Federal Aviation Regulations titled “[Small Unmanned Aircraft Systems](#)”. You can also copy and paste this link in your web browser: http://www.ecfr.gov/cgi-bin/text-idx?SID=e331c2fe611df1717386d29eee38b000&mc=true&node=pt14.2.107&rgn=div5#se14.2.107_123

Free Practice Test

The **Test Prep Lab** in your Private Pilot course generates practice tests geared towards the FAA Private Pilot Exam and will ask you questions about topics you have not seen. Instead we suggest you take the [FAA's UAS Practice Test](#) .

You can also copy and paste this link in your web browser:

http://www.faa.gov/training_testing/testing/test_questions/media/uag_sample_exam.pdf .

There is also a free FAA course for current airplane pilots seeking a remote pilot certificate you can take with a test at the end as well. While this will not cover all subject needed to pass your written exam, it will expose you to more information and additional questions. In order to take the course you need to go to www.faasafety.gov, create a user account and then enroll in the course listed under Hot Topics.

Your course does provide you the opportunity to take FAA-style questions by subject matter. (This feature is not available when using the *KING* Companion App.)

In the **Test Prep Lab**

1. Select **Answer Questions**
2. On the *KING* Study Category tab, select an individual topic or hold the **Ctrl** key down on your keyboard and select all the **Lab(s)** from the outline
3. Click **OK**
4. You will be tested on all the questions in those subject categories
5. You will see questions not covered in the material you studied since you were not required to study all the **Lesson Groups** or **Lessons** in that **Lab** as they do not apply to your area of study.
You can ignore those questions, however, it will be considered an Unanswered Question.

How do I Get My Endorsement to Take the Test?

You do not need an endorsement to take the FAA test.

Where Do I Go to Take My Test?

[FAA-approved Knowledge Testing Centers](#). You can also copy and paste this link in your web browser: https://www.faa.gov/training_testing/testing/media/test_centers.pdf