



LESSON PLAN:

Drone Safety

Fly Smart. Fly Safe.

© 2026 STEAM Thru Drones.
ALL RIGHTS RESERVED. You may photocopy for
classroom/personal use. You may NOT duplicate
or distribute for commercial use.

Drone Safety

Lesson Plan

Suggested guide, alter as needed!

Grade Level: 6–12 (CTE / STEM Aviation)

Subject: Science & Technology

Duration: 50 minutes (can extend to 2 days)

Objective: Students will learn and apply drone safety principles aligned with Federal Aviation Administration guidelines using the FLY RIGHT framework, and demonstrate understanding through scenarios and assessment.

Standards Alignment

- **ISTE:** Digital Citizen, Knowledge Constructor
- **NGSS:** HS-ETS1-2 (Design solutions with constraints & safety)
- **FAA Alignment:** §§107.12, 107.19, 107.23 (registration, PIC responsibility, safe ops)
- **CTE Aviation Pathways:** Safety & Operational Awareness

Learning Objectives (Bloom's Aligned)

Students will be able to:

1. Identify key drone safety rules (Remember)
2. Explain the FLY RIGHT framework (Understand)
3. Apply safety rules to real-world scenarios (Apply)
4. Evaluate safe vs unsafe drone operations (Analyze/Evaluate)

Materials

- Drone Safety **Presentation** &/or **Video**
- Drone Safety Wall Poster (STEAM Thru Drones)
- Student Worksheet (you created)
- Drone Safety Quiz
- Projector / Screen
- **Optional:** Drone or Simulator

Lesson Flow

- **ENGAGE** (5 min)
 - **Hook Question:** "Would you feel safe if a drone was flying directly over your head?"
 - Quick show of hands
 - **Ask:** Why or why not?
 - **Transition:** "Today, we're learning how to fly drones the RIGHT way."
- **EXPLORE** (10 min)
 - **Introduce Drone Safety Day**
 - Briefly explain FAA initiative
 - Show your Drone Safety Poster
 - **Teacher Prompt:**
 - "What do you notice first?"
 - "What rules do you already recognize?"
 - **Let students observe before teaching**

- **EXPLAIN (10 min)**

- **Teach: FLY RIGHT Framework**

- Walk through each:

- **R** – Register
 - **I** – Inspect
 - **G** – Gain Knowledge
 - **H** – Have a Plan
 - **T** – Trust & Train

- **Keep it student-friendly and interactive**

- **Ask 1 quick question per letter**

- **APPLY (15 min)**

- **Activity: Student Worksheet**

- Students complete:

- Part 1 (FLY RIGHT chart)
 - Part 2 (Fill in blanks)
 - Part 3 (Scenarios)

- **Option:**

- Pair students for discussion
 - Or do as small groups

- **EVALUATE (5–7 min)**

- Drone Safety Quiz (Exit Ticket)

- 10 questions
 - Quick grading or collect

- **CLOSURE (3–5 min)**

- **Reflection Question:** “What is ONE rule you will never break when flying a drone?”
- **Optional:** Call on 2–3 students

- **DIFFERENTIATION**

- **For Struggling Students**
 - Provide sentence starters
 - Pair with stronger student
 - Focus on key rules only
- **For Advanced Students**
 - Have them create their own safety scenario
 - Ask: “What happens if rules are ignored?”

EXTENSION OPTIONS (HIGHLY RECOMMENDED)

- **Option 1: Simulation Lab**

- Students:
 - Practice “safe vs unsafe” flying decisions
 - Identify mistakes in a flight scenario

- **Option 2: Preflight Checklist Activity**

- Students create:
 - Their own flight safety checklist

- **Option 3: Student Video Challenge**

- Students create: 30-sec “Drone Safety PSA”

ASSESSMENT

Assessment	Type	Weight
Worksheet	Formative	Participation
Quiz	Summative	Accuracy
Discussion	Informal	Engagement

BONUS: CERTIFICATION IDEA

- Create a classroom moment: **“Drone Safety Scholars”**
 - **Criteria:**
 - Completed worksheet
 - Passed quiz (80%+)
 - **Reward:**
 - Printable badge or certificate

STRATEGIC TEACHER TIP

Don't just teach safety, connect it to responsibility and careers:

“This is what real drone pilots are REQUIRED to know.”

That shifts students from “school activity” to “real-world skill”