

Middle School Initiative

**PART I
COVER SHEET**

CAP 2 SEMESTER 1 WEEK 17

COURSE: Rickenbacker Aerospace Education, Achievement 4

LESSON TITLE: Weather Elements

LENGTH OF LESSON: 50 Minutes

METHOD: Lecture - Performance

REFERENCE(S):

1. *Aerospace Dimensions*, Module 3, Chapter 2, 2000
2. Study Guide, 2000
3. Leader Guide, 2000
4. Resource Guide, 2000

AUDIO/VISUAL AIDS/HANDOUTS/ACTIVITY MATERIAL(S): As Needed

COGNITIVE OBJECTIVE: To learn about the different weather elements that affect Earth.

COGNITIVE SAMPLES OF BEHAVIOR: Upon completion of this chapter, the cadet should be able to:

1. Define wind.
2. Describe the Beaufort Scale.
3. Define heat.
4. Explain what temperature is and how it can be expressed.
5. Describe what wind chill is and what it does.
6. Describe how a microburst can affect a plane.

AFFECTIVE OBJECTIVE: N/A

AFFECTIVE SAMPLES OF BEHAVIOR: N/A

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PART II TEACHING PLAN

Introduction

ATTENTION: Today, you will continue your Aerospace Education studies in *Aerospace Dimensions*, Module 3 with Chapter 2 - Weather Elements.

MOTIVATION: What is the difference between wind chill and temperature? What makes the difference? This chapter will answer those questions.

OVERVIEW: During this period, you will continue your aerospace studies with Weather Elements.

Body

NOTE: The instructor should use the lesson plan in the Leader Guide, Pages 13-15. The cadets should use the Study Guide, Pages 18-19. A materials list is located in the Resource Guide, Page 47-48.

Conclusion

SUMMARY: We have studied the material in *Aerospace Dimensions*, Module 3, Chapter 2.

REMOTIVATION: There are many factors that make up weather. Today, we have learned about weather elements.

CLOSURE: Next week, we will continue our AE studies with Module 3, Chapter 3 - Moisture and Clouds. **Any questions? See you next week!**

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**PART III
LESSON REVIEW**

LESSON OBJECTIVE(S): Today, we learned how to:

1. Define wind.
2. Describe the Beaufort Scale.
3. Define heat.
4. Explain what temperature is and how it can be expressed.
5. Describe what wind chill is and what it does.
6. Describe how a microburst can affect a plane.

LESSON QUESTIONS: Contained in *Aerospace Dimensions*, Module 3, Chapter 2.