

# ACTIVITY 6 Weather on the Ranch

# RANCH LIFE SERIES | BOOK 1 | RANCHING AND LIVES TOCK Chapter 5

**Content Area** 

Science

Topic

Weather

### **Objective**

Students will observe the cause and effect of weather on the ranch.

Texas Essential Knowledge and Skills (TEKS):

K.10B, 1.10D, 2.10B, 3.10A

## Weather on the Ranch

**CONTENT AREA:** Science

**TOPIC:** Weather

### **ACTIVITY MATERIALS:**

- SECURITY BRIEFING (page A6-2): 1 per student or student group
- WEATHER ON THE RANCH ORGANIZER (page A6-5): 1 set per student or student group
- WEATHER ON THE RANCH TEACHER KEY (page A6-6): 1 set per student or student group
- · Pencil or pen
- THE BOTTOM LINE (page A6-6): 1 per student or student group

### **READING STRATEGY:**

Students will read Chapter 5 (pages 23-28) as they complete the activity below.

### **ACTIVITY INSTRUCTIONS:**

- 1. Each student (or student group) will receive a WEATHER ON THE RANCH ORGANIZER to fill out.
- 2. As they read through the chapter, students will identify and notate on their organizer how different types of weather affect every day life on the ranch. (A few answers have been provided, as not all answers to the questions can be found in Chapter 5.)
- 3. Teachers will use the WEATHER ON THE RANCH TEACHER KEY to check student work.

#### STUDENT SKILLS ASSESSMENT:

Have students (or student groups) complete THE BOTTOM LINE worksheet at the end of the activity.

### Weather on the Ranch



### **SECURITY BRIEFING -**

### WORDS OF WISDOM FROM HANK THE COWDOG:

It's me again, Hank the Cowdog. The **weather** outside is rumblin' and I remembered I hadn't told you anything about weather on the ranch! As the Head of Security, I must be on constant alert when it comes to weather here on the ranch. It is my job to bark and alert Loper when the weather starts to get rowdy.

Let me explain...

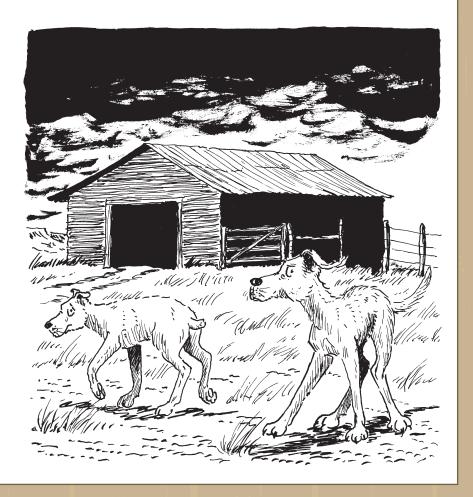
When I hear **thunder** it could mean **lightning strikes**, **hail stones**, or a **Texas twister (tornado)**. When the **temperature** drops to **freezing**, I can't snuggle up to a fire. I am on high alert for a **snow storm** or even a **blizzard**! The weather on a ranch can damage property or cause harm to the **plants and animals**.

### **ACTIVITY INSTRUCTIONS:**

- 1. Read Chapter 5
- 2. As you read, write down the observations I describe onto the WEATHER ON THE RANCH ORGANIZER.

### **WRAP UP:**

Fill out THE BOTTOM LINE worksheet after you have completed the activity.





AFFECT OF WEATHER ON THE RANCH Food might have to be supplemented with hay Ranchers can't move between pastures to Cattle have to be moved to other pastures Cattle can starve to death in this weather Cows produce less milk for their young Wind can carry grass fires for miles Wildlife struggles to find water DATE:\_ The Weather on Hank the Coundag's Ranch Cattle can't eat burned grass Natural water sources dry up Producers will die or cow cake Grass fires feed cattle Temperatures below 0°C cause precipitation to freeze and fall CAUSE OF WEATHER temperatures below 0°C cause Prolonged periods with no rain High winds during a snow Strong updrafts and cloud storm cause drifts hail to form. as snow Dry air Clouds build up, but instead of rain, they deliver lightning equipment can be covered with snow **OBSERVATIONS**  Fence posts, roads and Grass turns brown and Snow piles up in drifts Grass gets beat down Cracks in the ground stops growing Hot, dry winds SNOW & BLIZZARDS LIGHTNING **DROUGHT** HAIL **TYPE OF WEATHER** NAME

DATE:	dog's Ranch	AFFECT OF WEATHER ON THE RANCH					
	on Hank the Coundag's Ranch	CAUSE OF WEATHER		Strong updrafts and cloud temperatures below 0°C cause hail to form.	<ul> <li>High winds during a snow storm cause drifts</li> <li>Temperatures below 0°C cause precipitation to freeze and fall as snow</li> </ul>		
	The Weather on	OBSERVATIONS					
NAME:	-	TYPE OF WEATHER	DROUGHT	HAIL	SNOW & BLIZZARDS	LIGHTNING	

# Weather on the Ranch



NAME:	DATE:
	- : · : = :

### THE BOTTOM LINE

The weather on the ranch can cause a lot of damage to *plants* and *animals*. Predict what would happen in each of the events below.

Answer the questions below:

1. During a blizzard on the ranch snow drifts covered the fences and roads to the pastures. How would this event affect the ranch?

2. After 6 months of no rain the air is dry and warm on the ranch. In the distance there are storm clouds building up. What weather might result from the storm clouds? (There are different possibilities)

3. During a drought what might happen if a West Texas wind storm hit the ranch?

4. How does weather affect your life? How does it change your activities?

