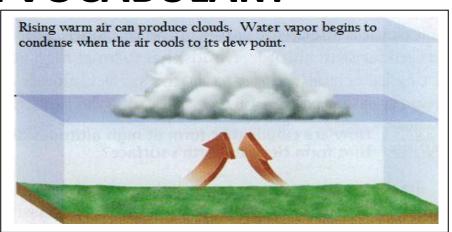
6-4.3 WEATHER STUDENT PACKET

- WEATHER WARM UPS
- WEATHER VOCABULARY
- CLOUDS



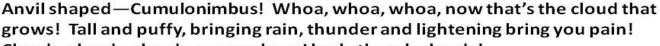
Clouds, Clouds Everywhere! Chant

by Mrs. Massey@

Clouds, clouds, everywhere I look, there's clouds!

Big puffy ones -Cumulus!

Flat pancake ones—Stratus!



Clouds, clouds, clouds, everywhere I look, there's clouds!

High icy ones-Cirrus!

High puffy ones-Cirrocumulus!

High pancake ones-Cirrostratus! Which always look the flattest!

Clouds, clouds, everywhere I look, there's clouds!

Word part for high-cirro and for medium-alto!

Word part for low-strato and nimbus is full of rain yo!

Clouds, clouds, clouds, everywhere I look, there's clouds!

Medium puffy-Altocumulus!

Medium pancake-Altostratus! Which always look the flattest!

Clouds, clouds, everywhere I look, there's clouds!

But just one thing before I go, a stratus cloud on the ground is fog ya know?

WARM UPS- Week of_____

Day 1 Warm Up-MATCHING CLOUD VOCABULARY

1.	Cumulus:	A: word part meaning rain
2.	Cirrus:	B. word part meaning high
3.	Stratus:	C: word part meaning medium
4.	fog:	D: puffy cloud
5.	nimbus:	E: pancake like cloud in layers
6.	cirro:	F: high icy clouds
7.	alto:	G: low lying stratus cloud
8.	Cumulonimbus:	H: tall thunderhead cloud

Day 2 Warm Up-Cloud Chart					
Cloud Type	Name	Description	Associated Weather		

Day 3-Warm Up-Clouds				
1. What are clouds?				
3white and feathery.	_ clouds are			
4puffy.	_ clouds are			
5	_clouds are low.			
6. Clouds that look like gray blankets are called				
7. What is fog?				
8. List the three types of clouds below:				
A B				
C				

Day 4 Warm Up- Identify the cloud type and tell one trick to remember about it.

Cloud	Name	Trick

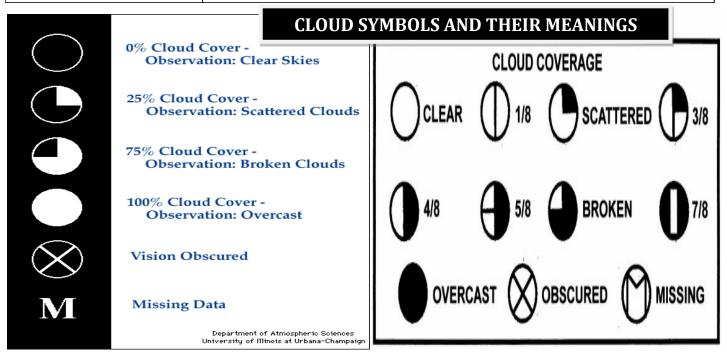
Friday Warm Up-Prepare for Quiz

	Weather Vecabulary Standard 6-4-2			
Weather Vocabulary Standard 6-4.3 6-4.3 Classify shapes and types of clouds according to elevation and their associated				
weather conditions and patterns.				
1. Cloud A collection of millions of tiny water droplets or ice crysta				
1. 0.000	that hang in the troposphere over earth.			
2. Cumulus Clouds	Clouds formed at medium or low elevation, puffy with flat			
	bottom, when white they often signal fair weather, when			
	dark, they may signal rain or thunderstorms.			
cumulus clouds				
Value of the second sec				
3. Stratus Clouds	Clouds formed at medium or low elevation, spread out layer			
	upon layer covering a large area, as they thicken,			
	precipitation usually occurs over that area.			
stratus clouds				
4 C' Cl l.	Clouds formed at high alongtions wisnes alonds would			
4. Cirrus Clouds	Clouds formed at high elevations, wispy clouds, usually consist of ice crystals, they signal fair weather or may also			
	signal an approaching warm front.			
5. Cumulonimbus	Also called a thunderhead, is often part of thunderstorm			
cloud	conditions that may accompany a cold front (lightning and			
	thunder).			
THE RESERVE TO SERVE	ANVIL-SHAPED CLOUD			
cumulonimbus clouds				
6 Nimboctratus	Dark stratus clouds full of rain.			
6. Nimbostratus clouds	Dai K 3ti atus tivuus iuli vi i aili.			
7. Fog	clouds that form when condensation occurs at or near the			
7. Fug	ground when land cools over night causing the water vapor			
	above it to condense.			
-				
8. Alto	Word part which means medium-level for example,			
	altocumulus or altostratus			
9. cirro	Word part meaning high.			
10. Nimbo/nimbus	Word part which means "rain".			
1				

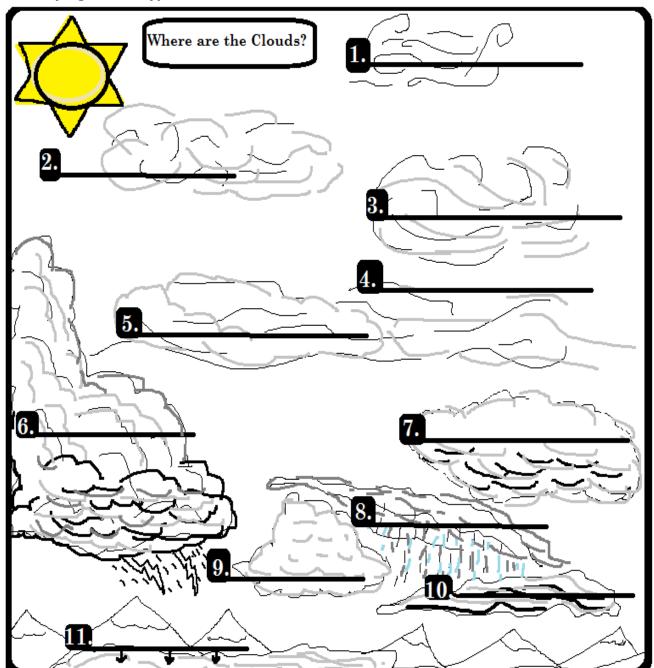
CLOUDS

Another factor that influences the weather is moisture in the air. Moisture in the air condenses and that air can then fall to the earth as rain, hail, snow, or sleet. Water vapor in the atmosphere can condense into clouds. There are several different types of clouds.

Cloud	Description
	Cumulus clouds are tall and puffy. When sunlight hits these clouds, they are bright white.
	In STRATUS clouds, water droplets collect into flat shapes like pancakes. The "pancakes" can be thick or thin. Stratus clouds can often be seen as low, grayish clouds that cover the whole sky, like fog that doesn't reach the ground.
1 Partie	In cirrus clouds, water droplets collect to form thin curves with no clear shape. Cirrus clouds are found high in the sky (at about 18,000 feet or above).
	The cumulonimbus clouds can't hold all their water droplets. These drops can become so heavy that they fall as rain, snow, or hail. These clouds look tall, puffy, and gray. They may bring thunder and lightning.



Identifying Cloud Types



Word Box

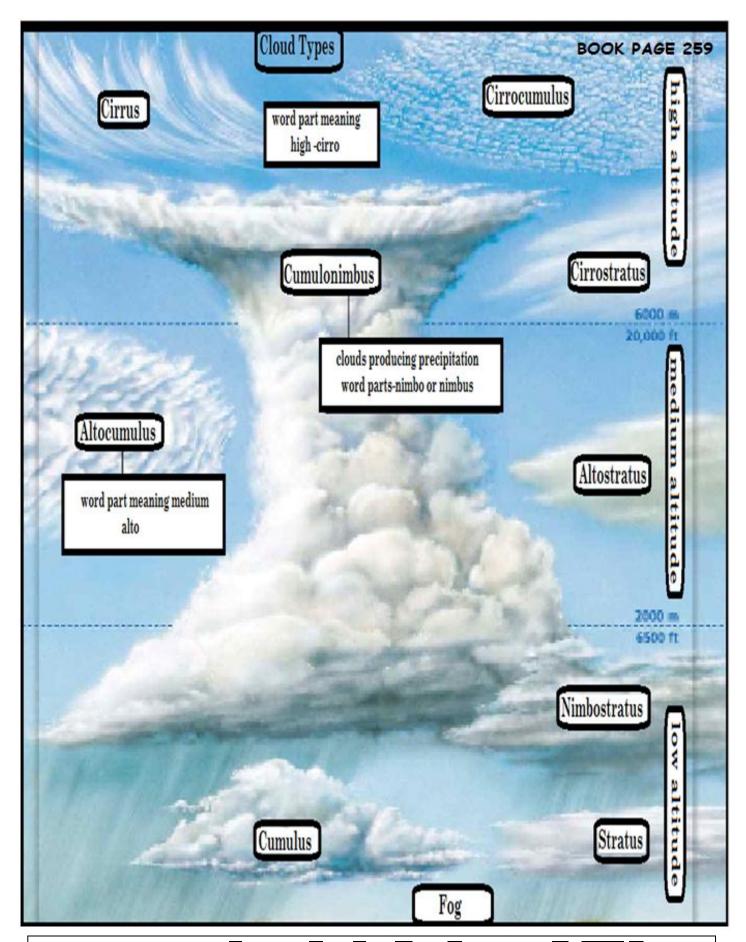
Cirrocumulus Cumulonimbus Fog

Altostratus Cirrus Altocumulus

Cumulus Stratus Cirrostratus

Stratocumulus Nimbostratus

			Weather that comes			
Cloud Type	Name	Description	with these clouds			
			Mostly clear skies, but			
			sometimes light showers			
(Zaw		(means curl)				
450		thin, wispy, featherlike clouds				
		found at high				
		altitudes and made				
		up of ice crystals				
	Stratus					
			thunderstorms and rain			
Word Box						
(means layer)	Stratus	Steady drizzle	Cumulonimbus			
sheet-like, low,						
uniform layers						
Cirrus	Fair skies	(means heap) fluffy, thick, dome- shaped, usually have a flat base	large, dark, billowing clouds			
Cirrus	Fair skies	fluffy, thick, dome- shaped, usually have				



Mnemonic Device: Friends Can See New Comedies At ABC Cable Channel Company

BROCHURE PROJECT TRAVEL TO THE CLOUDS!

Cumulus

Each of the 3 main panels on the inside of the brochure should include the following

information: P. 259 (PREVIOUS PAGE)

- 1. Cloud Type
- 2. Shape/Description of Cloud
- 3. Altitude of Cloud
- 4. Type of Weather
- 5. Picture/Drawing of Cloud

The outer front panel should include:

- Title (such as "Travel to the Clouds")
- Catchy introduction paragraph to identify purpose of brochure- to travel through the clouds
- <u>FOG</u>

Cirrus

Stratus

The process of condensation as it applies to cloud formation

The outer back panel should include:

- FAQ section (Frequently Asked Questions)
- Include 5 multiple choice questions about clouds (provide at least a,b,c answer choices for each question)

** Before decorating- the group should fold the chart paper into the brochure tri-fold and then cut about 3 inches from the top and bottom. This will ensure that the brochure will fit through the laminator.

Travel to the Clouds Rubric			
Cloud type and info 75 points (25 points for each cloud type)			
FAQ	15 points		
Decorations/Creativity	10 points		
Total Grade	100 points		

(Project continued on next page.)

Duty Descriptions Student 2 Student 1 Student 3 Student 4 **Cumulus Cloud information Cirrus Cloud information and Stratus Cloud information** Front cover and the FAQ section and pictures (write rough draft of information pictures and pictures in science notebook) and then all students at the table-draw and fill out the Title page and FAQ section). *All students at the table-draw and fill out the Title page and FAQ section using Student 4's notes in their science notebook.

Clouds Study Guide

1.	 clouds are those that are formed at medium or low elevation (puffy with flat bottoms). When thes clouds are white they often signal weather, but when they are darker, they may signal or 						
2.	clouds are those that are formed at high elevations; clouds usually consisting of crystals that signal weather or may also signal an approaching						
3.			-		_	spread out upon la	yer
	covering a large are	ea. As these clouds	thicken,	usua	ally occurs ove	r that area.	
4.	•				-	s and a prefix or suffix. Tl	
	_					nations of those shapes ca	an be
_	used with						
5.	accompany a		a a tnundern	ead, is often part	ortnunaersta	orm conditions that may	
6.			be used to i	ndicate medium	-level clouds fo	ormed at about 2-6 kilom	eters
0.	up into the atmospl	•					
7.	Clouds that form w					l fog.	
Identif	y these cloud types:						
8.		9.		10.		11.	
0		4	كرا	000000		₹####################################	$\frac{1}{2}$
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Anvil, 8 miles

Cirrus, 7 miles



Cirrocumulus, 6 1/2 miles



Cirrostratus, 6 miles



Altostratus, 5 miles





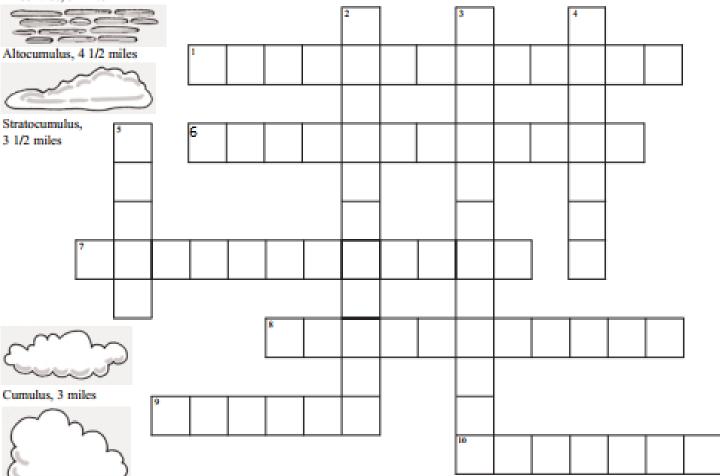
The Cloud Crossword

Across

- Called Thunderheads, they go from ground level to the greatest heights.
- Thin sheets of cloud at high levels.
- 7. Rain clouds, dark and close to the ground.
- Puffy clouds with dark, rippled undersides.
- Wispy clouds looking like a horse's tail blowing in the wind.
- 10. Thick, dull-gray, low-hanging yielding drizzle and mist.

Down

- 2. High thick sheets of pale gray cloud.
- Clouds of ice crystals at 25-30,000 ft. altitude.
- 4. "Fair-weather" clouds form in warm air on sunny days.
- Very high clouds with tops which are spread out and flattened.







Cumulonimbus, 2 miles

Nimbostratus, 3000 ft.