

Science Circus Worksheet Packet

Station 1- What was the weather like that day?

After completing Part 1 for the first photo, take turns and use the computer to access to the weather report website. While waiting, complete Part 1 for the second photo and the questions on page 5.

First Photo

Part 1. The Clouds Spotter

* What I know about my first photo.

photo number	the city name	the date

* What the clouds spotter helped me know about clouds in my first photo.

the name of the clouds	My prediction of the weather

Part 2. The Weather Report Website

Based on the **temperature**, determine if it was hot, warm, cool, or cold. Refer to the average temperatures in Williamsburg:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. High	47°	51°	60°	70°	78°	84°	88°	87°	81°	71°	62°	52°
Avg. Low	26°	28°	36°	44°	54°	62°	66°	65°	58°	48°	38°	31°
Mean	37°	40°	48°	57°	66°	74°	78°	77°	71°	60°	51°	42°
Avg. Precip.	3.8 in	3.5 in	4.3 in	3.0 in	4.5 in	4.0 in	5.0 in	4.7 in	4.3 in	3.3 in	3.5 in	3.4 in

Do not forget to check **snow**, **wind**, and **events**.

* What the weather report website told me about the weather.

The reported weather	Matches to my prediction? How?

Second Photo

Part 1. The Clouds Spotter

* What I know about my second photo.

photo number	the city name	the date
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* What the clouds spotter helped me know about clouds in my second photo.

the name of the clouds	My prediction of the weather

Part 2. The Weather Report Website

Based on the **temperature**, determine if it was hot, warm, cool, or cold.

Refer to the average temperatures in Williamsburg:

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Do not forget to check **snow**, **wind**, and **events**.

* What the weather report website told me about the weather.

The reported weather	Matches to my prediction?
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Station 1: Questions

1. Have you seen such clouds in person? Where? When? What was the weather like that day?
2. What characteristics did you look for to match them?
3. Is the weather information for the past you found on the website a prediction or a record?
4. Between the clouds spotter and the weather report website, which gives a more accurate prediction for the weather?
5. Does the weather forecast always make correct predictions?

Station 2: How Fast Does the Wind Blow?

	Trial 1	Trial 1	Trial 2	Trial2	Trial 3	Trial 3
	RPM	MPH	RPM	MPH	RPM	MPH
Breath						
Hair Dryer: Low Speed						
Hair Dryer: High Speed						

Station 3:

**Updrafts in Action
Observation Notes**

1. What happens to the ball in the airstream?

2. How many balls can be suspended?

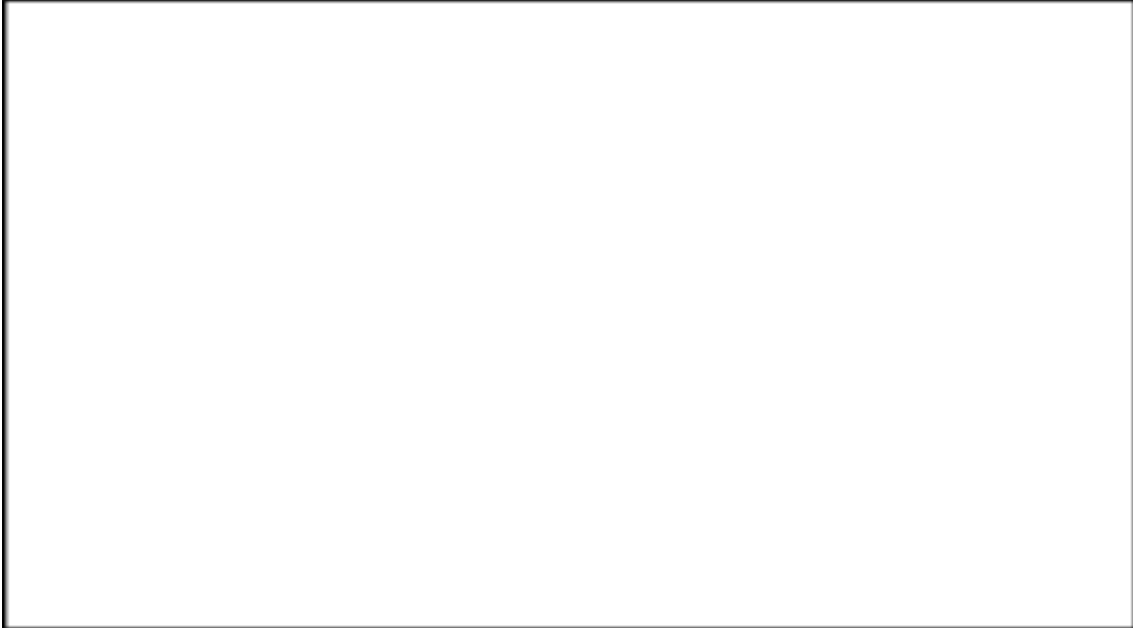
3. What happens if you tilt the hair dryer?

4. What happens if you change the speed of the air stream?

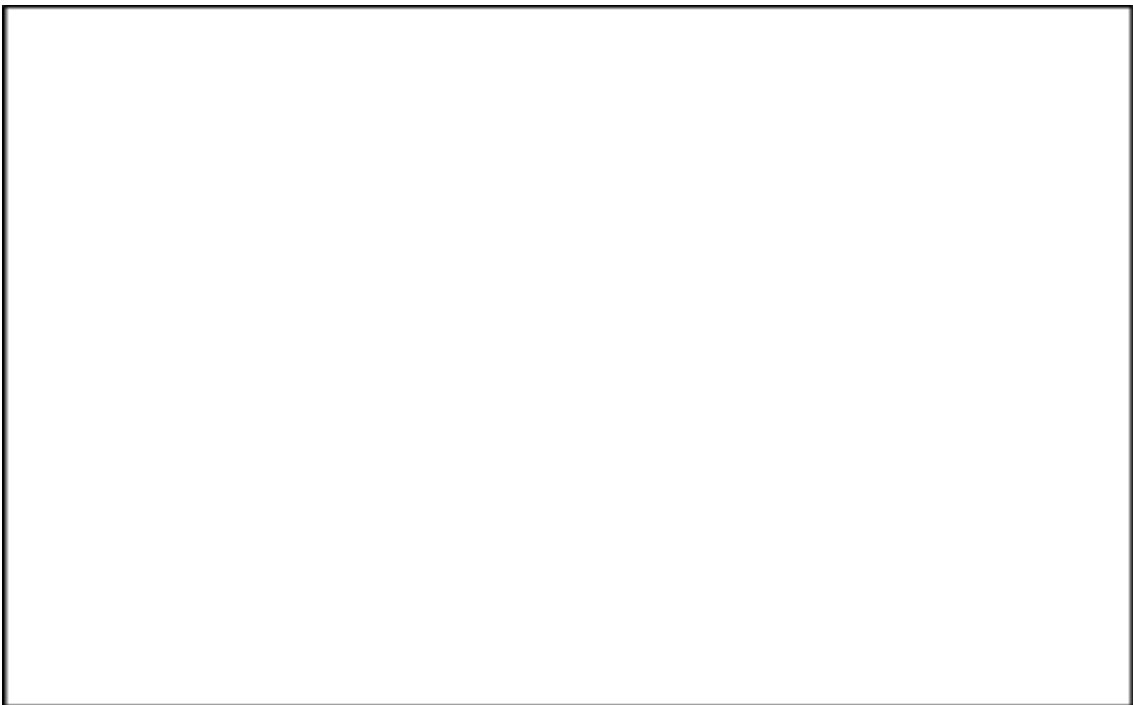
***** Make sure you take turns and do several trials to get accurate results*****

Station 4: Tumultuous Thunderstorm

In the space provided draw what you observed:



In the space provided draw a thunderstorm using the ideas that you learned:



Station 5: Cloud Cotton Ball

1 With your partner, PREDICT how many drops of water can fit into a cotton ball.
_____ drops of water will fit into the cotton ball.

2 How many drops of water did you OBSERVE fit into the cotton ball?
_____ drops of water actually fit into the cotton ball.

3 How does this activity connect to storms, the Tumultuous Thunderstorm activity, or to the cloud spotter activity?

Exit Card: Using at least one of the words from the word bank, describe what happened in the fruit punch activity and relate it to one of the activities you did during the science circus.

Word Bank: Evaporation, condensation, heat energy, updrafts, fronts

Photo #1 In Poquoson, VA on July 8, 2005



Photo #2 In Blacksburg, VA on 15 March 2012



Photo #3 In Roanoke, VA on July 6, 2011



Photo #4 In Roanoke, VA on July 16, 2011

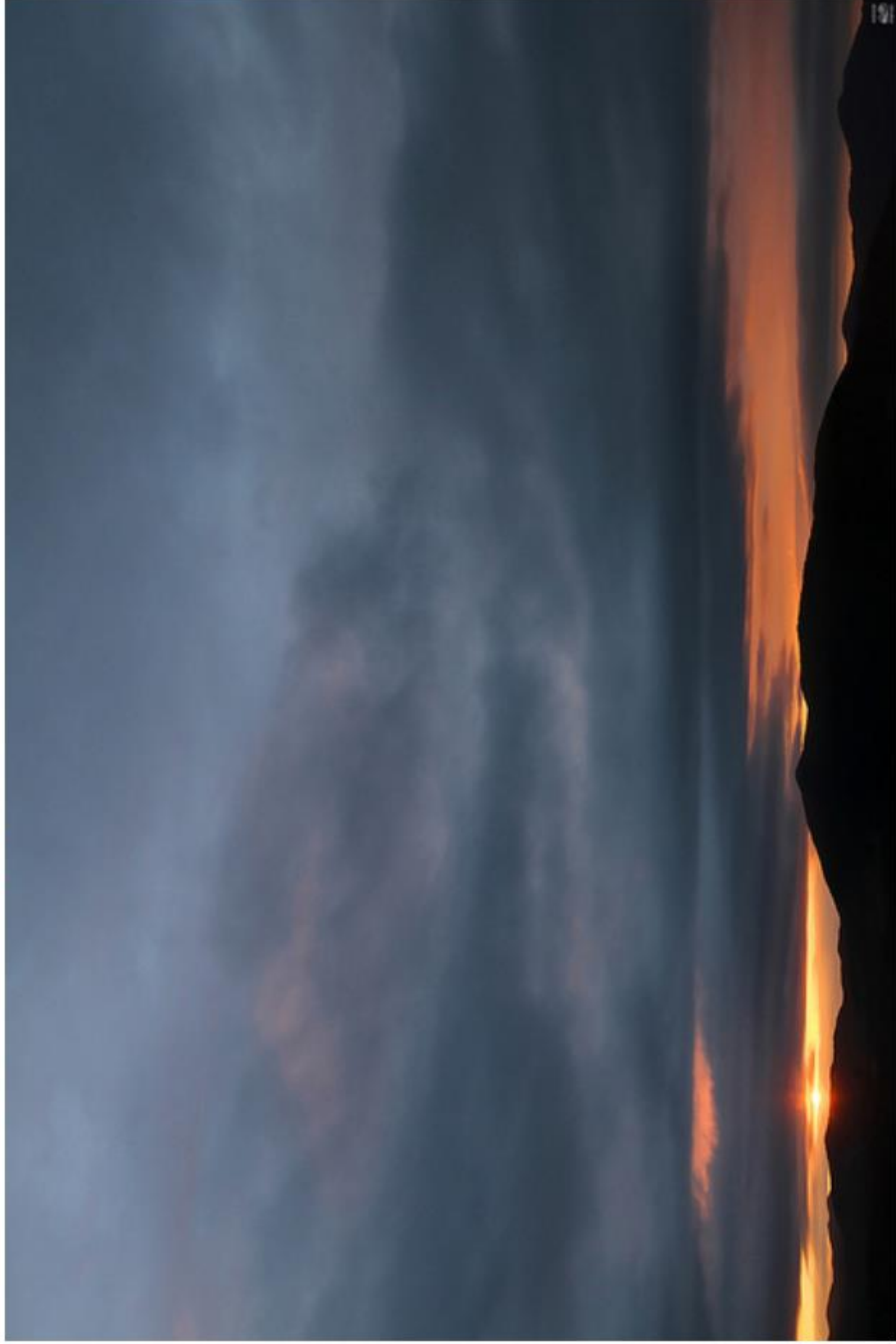


Photo #5 In Yorktown, VA on May 21, 2011



Photo # 6 In Virginia Beach, VA on July 29, 2010

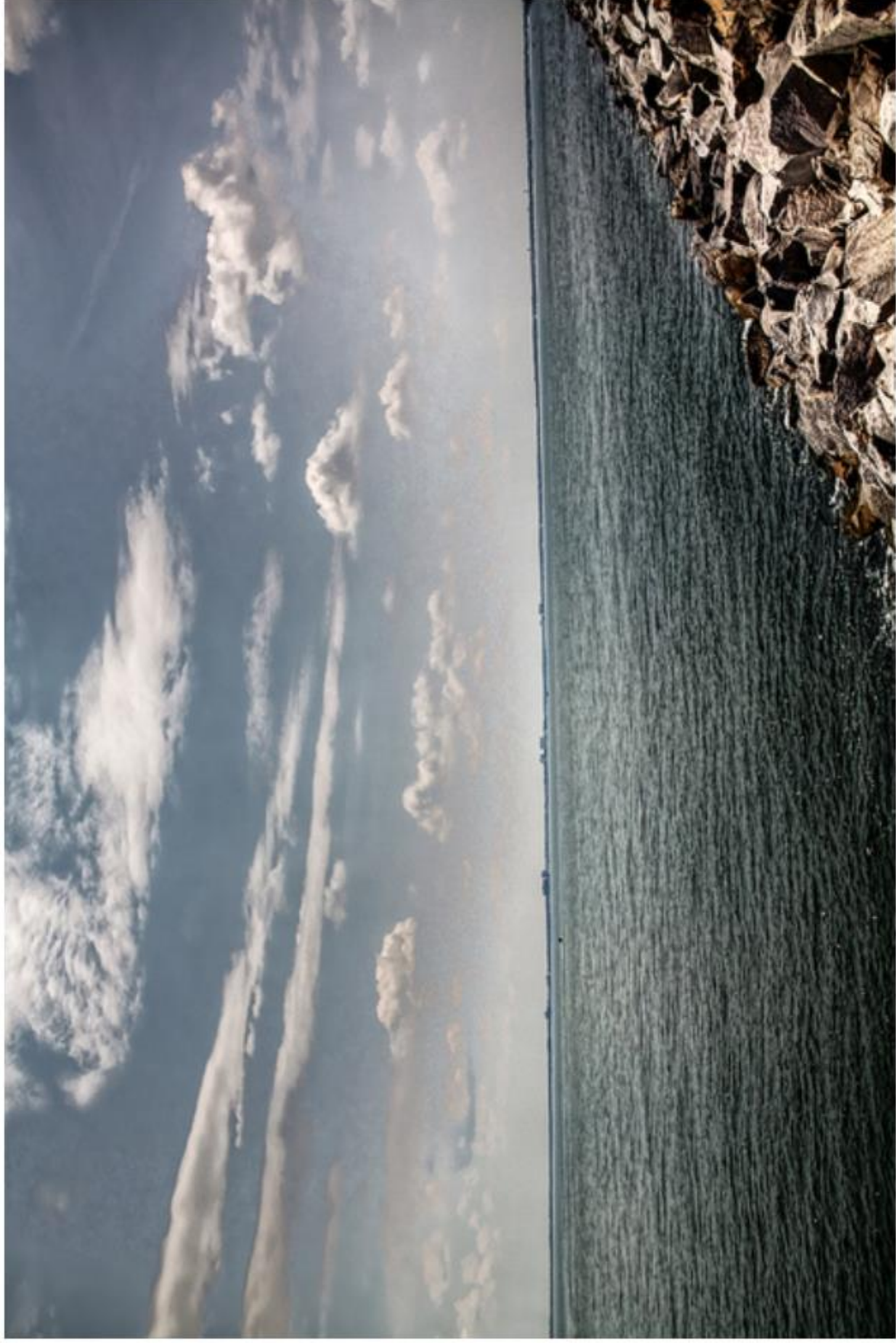


Photo #7 Amherst, VA on April 20, 2011



Photo #8 In Richmond, VA on April 8, 2010



Photo #9 In Linden, VA on April 17, 2011



Photo #10 In Richmond VA, on April 16, 2011



Photo #11 In Hanover, VA on May 19, 2011

