

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Bill Nye: Wind



1. Wind is caused by the \_\_\_\_\_ from the sun and the \_\_\_\_\_ of the earth.
2. The earth is spinning so the wind starts \_\_\_\_\_ that's why wind comes from all different directions.
3. Warm air takes up more space. It \_\_\_\_\_. Cool air takes up \_\_\_\_\_ space. Cool air contracts.
4. Hot air \_\_\_\_\_ like from a toaster. Cold air \_\_\_\_\_. You can tell by opening the freezer.
5. Heating & \_\_\_\_\_ of the Earth make wind.
6. \_\_\_\_\_ starts out as liquid rain drops. It falls down and the same updrafts that form thunderstorms blow the stone back up high in the clouds, where another layer of liquid water forms on the outside and refreezes (process repeats forming layers) . . until eventually they're too \_\_\_\_\_ to stay up, so they fall down.
7. The largest hailstone on record weighed \_\_\_\_\_ grams and it was 44 cm around.
8. When puffs of hot air rise, they make the dust in the air moves around, the wind moves around, moving the dust around too, which makes the stars look like they're twinkling.  
**Why don't the stars twinkle as much in the winter?**  
\_\_\_\_\_
9. A barometer is what scientists use to measure \_\_\_\_\_ in the atmosphere (Baro- means weight).
10. When the air is thick, it has \_\_\_\_\_ barometric pressure. When the air is \_\_\_\_\_, it has low barometric pressure.
11. Normally when we have high barometric pressure its \_\_\_\_\_ and when we have low barometric pressure its \_\_\_\_\_.
12. The wind we call a \_\_\_\_\_ is a high altitude wind that moves from west to east.
13. Air rises at the \_\_\_\_\_ and sinks at the poles. Since the earth rotates, the wind moves in \_\_\_\_\_ not straight down. This is called the Coriolis \_\_\_\_\_.
14. Why do hurricanes and tornadoes go round and round?  
\_\_\_\_\_
15. Wind erodes mountains and other pieces of land. Erode is from an old word that means \_\_\_\_\_ away. Wind is always \_\_\_\_\_ the landscape.
16. Why is the temperature always the same in caves?  
\_\_\_\_\_

**Windy Day**  
**The Wind is in Your Hair**

<sup>1</sup>The wind that you feel  
<sup>2</sup>In your face, what a thrill  
<sup>3</sup>That blowing action moves things around  
<sup>4</sup>That gusty action above the ground  
<sup>5</sup>Wind can even create power  
<sup>6</sup>Wind can knock over a tower  
<sup>7</sup>The force of a gust of wind  
<sup>8</sup>Can make this here windmill spin  
<sup>9</sup>Which can become electricity  
<sup>10</sup>Wind can even create power  
<sup>11</sup>Wind can blow away this flower

<sup>12</sup>Wind is in the a-a-a-air  
<sup>13</sup>Wind is in your ha-a-a-air  
<sup>14</sup>Wind is over the-e-e-ere  
<sup>15</sup>Wind is everywhe-e-e-ere

<sup>16</sup>The wind that we all share  
<sup>17</sup>Dances around in our hair  
<sup>18</sup>It's circulation  
<sup>19</sup>Keeps all it moving

<sup>20</sup>Wind keeps on blowing by the hour  
<sup>21</sup>Wind can knock over a tower  
<sup>22</sup>Air can flow  
<sup>23</sup>Leaves and flags show  
<sup>24</sup>Air pressure changes make it go  
<sup>25</sup>It's not visible or consistent  
<sup>26</sup>Just gusty and persistent  
<sup>27</sup>Wind can even create power  
<sup>28</sup>Wind can blow away this flower  
<sup>29</sup>Wind is in the a-a-a-air

<sup>30</sup>Wind is in my ha-a-a-air  
<sup>31</sup>Wind is over the-e-e-re  
<sup>32</sup>Wind is everywhe-e-e-re  
<sup>33</sup>(What have, what have, what have  
you seen the wind do?  
<sup>34</sup>What have, what have, what have  
you seen the wind do?  
<sup>35</sup>What have, what have, what have  
you seen the wind do?  
<sup>36</sup>What have, what have, what have  
you seen the wind do?)  
<sup>37</sup>Wi-i-i-i-nd

17. Explain the meaning of line 5.

18. Explain the meaning of line 24.

19. Explain the meaning of lines 25-26.

20. Answer the question asked in lines 33-36.

21. Draw a picture of a main idea from the video in the box on the right.



22. Using this video worksheet, write a 2-3 sentence summary on the wind.

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**Answer Key:**

1. heat, rotation
2. spinning
3. expands, less
4. rises, sinks
5. Heating
6. Hail
7. 760
8. The air is cold, so it doesn't rise as much, so the stars don't twinkle as much.
9. Pressure
10. High, Thin
11. Sunny, stormy
12. Jet stream
13. Equator, circles, effect
14. Because the earth is spinning
15. Wear, changing
16. There's no wind, so no change in weather
17. Windmills are used to generate electrical power.
18. It's the differences in air pressure that causes wind.
19. You can't see the wind and it is not always the same.
- 20., 21., & 22. **Answers will vary.**