PRACTICE PASSAGES (TEACHER GUIDE)

BUBBLING UP BALLOONS

- 1. The best answer is **B** because the experiment is set up to test carbon dioxide production.
 - It is not **A** because the balloons were being tested for filling not shrinking. It is not **C** because the balloons are not reacting themselves to the yeast but rather measuring production. It is not **D** because water temperature was not part of the original experiment but rather mentioned as a follow up experiment.
- 2. The best answer is **C** because this result showed more carbon dioxide captured by the balloon.
 - It is not **A** or **B** because these are not results; they are variables held constant. It is not **D** because the question asks about more production of carbon dioxide, not less.
- 3. The best answer is **C** because the balloon on the salt mixture was inflated the least.
 - It is not **A** because the experiment was not about ethanol. It is not **B** because there was some effect as evidenced by it not inflating to the same amount as yeast alone. It is not **D** because it did not help in production, or the balloon would have been larger than for yeast alone.
- 4. The best answer is **C** because if one of the constants changes, it is best to make the same change in ratio to all the elements of the mixture.
 - It is not A, B, or D, because these only double one other element of the mixture.
- 5. The best answer is **D** because the way this experiment is set up, it is only measuring for carbon dioxide. The data is not able to reflect any other byproducts of the reaction.
 - It is not **A**, **B**, or **C** because these all do not reflect that ethanol production was not measured in this experiment.
- 6. The best answer is **B** because the experiment tests for carbon dioxide as a product of a reaction with yeast. The salt and sugar would not produce carbon dioxide alone.
 - It is not **A** or **C** because this is only true when yeast is present. It is not **D** because the yeast is needed for the balloons to fill at all.
- 7. The best answer is **A** because it keeps the rest of the experiment constant to test just for water temperature.
 - It is not **B**, **C**, or **D** because each of these answers suggests the addition of another variable that could change the results.



SPIN ME RIGHT ROUND

- 1. The best answer is **A** because Scientist 1 would attribute the increased factories to increased emissions, while Scientist 2 would attribute the increase in factories to increased property damage.
 - It is not **B** or **D** as only Scientist 1 hypothesizes that climate change is increasing the damage due to hurricanes. It is not **C** because only Scientist 2 hypothesizes that increased building has led to increased damage from hurricanes.
- 2. The best answer is **C** because Scientist 1 is interested in intensity of hurricanes (wind speed) and Scientist 2 is interested in property damage.
 - It is not **A**, **B**, or **C** because both Scientists are interested in the kind of information that is captured in the wind scale.
- 3. The best answer is **C** because Scientist 2's argument revolves around improvements in buildings leading more people to settle in certain areas.
 - It is not **A** because where humans have moved does not play a role in Scientist 1's argument. It is not **B** because warmer air leads to hurricanes. It is not **D** because while this goes against Scientist 1's argument, it does not play a role in Scientist 2's hypothesis.
- 4. The best answer is **D** because this is Scientist 2's argument in the passage.
 - It is not **A** because Scientist 2 believes climate change plays a smaller role than population change. It is not **B** because this is not found in the passage or part of Scientist 2's argument. It is not **C** because Scientist 2 does think climate change happens, just that it is not the main cause of increased hurricane damage.
- 5. The best answer is **A** because more damage inland would not support that increased building and population movement is the main driver of hurricane damage.
 - It is not **B** because this would actually support Scientist 2's argument. It is not **C** because greenhouse gases are not a factor in Scientist 2's hypothesis. It is not **D** because Scientist 2 is focused on hurricane damage, not frequency and intensity.
- 6. The best answer is **C** because it is stated in the passage that the melting of the polar ice caps is a major factor in rising sea levels.
 - It is not **A**, **B**, **or D** because the passage does not support these assumptions.
- 7. The best answer is **B** because Scientist 1 hypothesizes that increased greenhouse gases would increase the melting of the polar ice caps, leading to rising sea levels.
 - It is not **A** because decreased damage to property might mean that hurricane frequency and severity decreased. It is not **B** because Scientist 1 predicts that higher ocean temperatures will lead to more hurricanes. Likewise, it is not **D** because Scientist 1 also predicts hurricanes will take new paths due to climate change.





WIND, SUN, AND RAIN ON THE PLAINS

- 1. The best answer is **D** because there are three cameras taking pictures every two hours out of 24 total hours or twelve times. Three times twelve is 36.
 - It is not **A**, **B**, **or C** as these do not have the correct number of measurements/photos being taken.
- 2. The best answer is **B** because Observation 2 took 36 measurements each day; whereas, Observation 3 took only 30 measurements per day, and Observation 1 only took four measurements per day.
 - It is not **A or C** because Observation 1 took only four measurements a day, and Observation 3 took 30 measurements. It is not **D** because they did not collect the same amount of measurements in a day/week.
- 3. The best answer is **B**, because Lawton has the lowest amount of cloud coverage in the week measured.
 - It is not **A** or **C**, because these cities had higher cloud coverage than Lawton for the week recorded. It is not **D** because we can tell from the data which city got the most sun.
- 4. The best answer is **C** because Lawton has the highest wind speed for the week, but does not have the most or least rain.
 - It is not **A or B** because the highest wind speed does not equate to the highest or lowest rainfall. It is not **D** because you can make an educated guess from the data.
- 5. The best answer is **B** because more barometers cover more area, getting a more accurate picture of the amount of rain in the city.
 - It is not **A** because anemometers measure wind speed. It is not **C** because getting readings more often does not increase accuracy for rainfall. It is also not **D** because this would not increase the accuracy, just the amount of rain.
- 6. The best answer is **A** because one week is a relatively short amount of time to make such a sweeping claim.
 - It is not **B** because this is a commonly accepted method of estimating cloud coverage. It is not **C** because while this is true, it is not enough data upon which to make such a claim. Furthermore, it is not **D** because this is too short of a timeframe to make this assumption.
- 7. The best answer is **C** because this represents many different parts of the United States.
 - It is not **A**, **B**, or **D** because each of these options is clustered in a relatively small area of the United States.

