

Comprehension questions

Here we provide a list of the comprehension questions used to estimate participants' abilities and their respective options. For clarity, the correct answer for each question is highlighted in bold. Note that the ordering of the questions and options were randomly shuffled for each participant.

1. How much is 0° Celsius in Fahrenheit?
 - 0°
 - **32°**
 - 34°
 - 100°
2. What does a barometer measure?
 - **Atmospheric pressure**
 - Rainfall
 - Temperature
 - High tide
3. What is climate?
 - The amount of rain an area receives
 - The condition of the atmosphere at a certain place and time
 - The temperature of the air
 - **The average weather over an extended period of time**
4. Which of these statements is true?
 - Land absorbs and stores more heat energy than oceans
 - **Land heats up and cools down quicker than oceans**
 - Oceans heat up and cool down quicker than land
 - Oceans and land heat up and cool down at the same speed
5. Is the atmospheric pressure inside a tropical storm higher or lower than normal?
 - Higher
 - **Lower**
6. When it is summer in the Southern hemisphere it is:
 - **Winter in the Northern hemisphere**
 - Spring in the Northern hemisphere
 - Summer in the Northern hemisphere
 - Fall in the Northern hemisphere
7. Which is the technical term for the moisture content in the air?
 - Heat density
 - **Humidity**

- Condensation
 - Evaporation
8. If a weather forecaster predicts “high pressure” what kind of weather would we expect?
- **Calm weather**
 - Stormy weather
 - Snowy weather
9. What type of cloud is most likely to produce rain, thunder, and lightning?
- Cirrus
 - Stratus
 - Cumulus
 - **Cumulonimbus**
10. Why does wind chill decrease the temperature felt by our skin?
- It increases heat transfer from the body to the environment
 - **It decreases heat transfer from the body to the environment**
 - It increases heat transfer from the environment to the body
 - It causes precipitation to become more frequent, thus lowering ambient temperatures