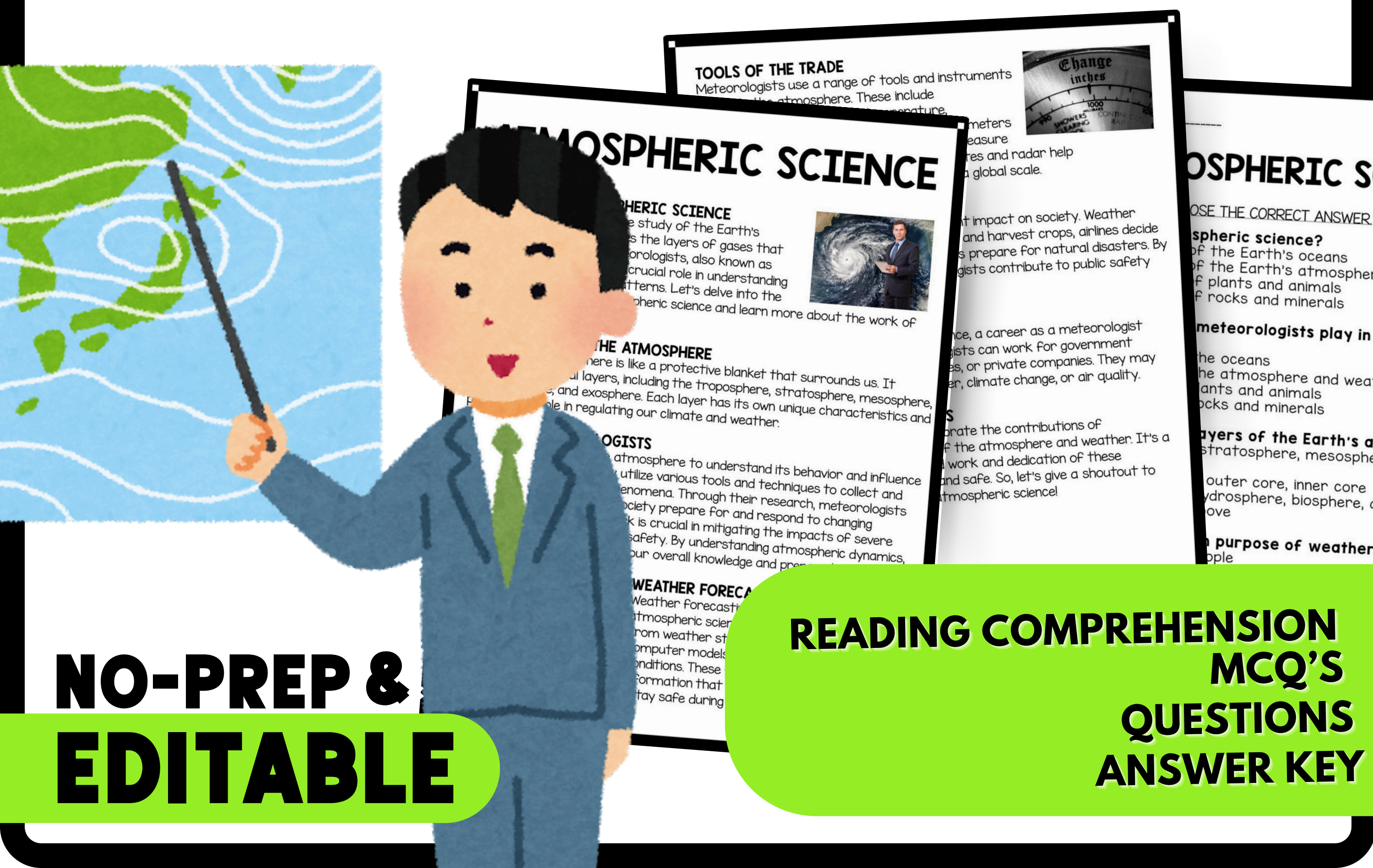


# Meteorologists Weather Scientists

# ATMOSPHERIC SCIENCE

## READING COMPREHENSION



The illustration features a male teacher with dark hair, wearing a blue suit and a green tie, pointing with a black pointer stick at a weather map on the left. The weather map shows green landmasses and blue oceans with white contour lines. Behind the teacher is a stack of three reading comprehension materials. The top material is titled 'ATMOSPHERIC SCIENCE' and includes a section 'TOOLS OF THE TRADE' with a photograph of a weather gauge. The middle material is also titled 'ATMOSPHERIC SCIENCE' and includes a photograph of a man in a suit standing next to a large weather map. The bottom material is titled 'ATMOSPHERIC SCIENCE' and includes a photograph of a man in a suit standing next to a large weather map. The materials are partially overlapping and slightly tilted.

**NO-PREP & EDITABLE**

**READING COMPREHENSION MCQ'S QUESTIONS ANSWER KEY**



# READING PASSAGES WITH TEXT DEPENDENT QUESTIONS

## ATMOSPHERIC SCIENCE

### EXPLORING ATMOSPHERIC SCIENCE

Atmospheric science is the study of the Earth's atmosphere, which includes the layers of gases that surround our planet. Meteorologists, also known as weather scientists, play a crucial role in understanding and predicting weather patterns. Let's delve into the fascinating world of atmospheric science and learn more about the work of meteorologists.



### UNDERSTANDING THE ATMOSPHERE

The Earth's atmosphere is like a protective blanket that surrounds us. It consists of several layers, including the troposphere, stratosphere, mesosphere, thermosphere, and exosphere. Each layer has its own unique characteristics and plays a vital role in regulating our climate and weather.

### ROLE OF METEOROLOGISTS

Meteorologists study the atmosphere to understand its behavior and influence on weather patterns. They utilize various tools and techniques to collect and analyze data on weather phenomena. Through their research, meteorologists make forecasts that help society prepare for and respond to changing weather conditions. Their work is crucial in mitigating the impacts of severe weather and enhancing public safety. By understanding atmospheric dynamics, meteorologists contribute to our overall knowledge and preparedness.



### WEATHER FORECASTING

Weather forecasting is a major part of atmospheric science. Meteorologists use data from weather stations, satellites, radar, and computer models to predict future weather conditions. These forecasts provide valuable information that helps people plan their daily

activities and make decisions to stay safe during extreme weather events.

Ready to Print &  
Editable



### TOOLS OF THE TRADE

Meteorologists use a range of tools and instruments to study the atmosphere. These include thermometers to measure temperature, barometers to measure air pressure, anemometers to measure wind speed, and rain gauges to measure rainfall. Advanced technologies such as satellites and radar help meteorologists track weather patterns on a global scale.



### IMPACT ON SOCIETY

The work of meteorologists has a significant impact on society. Weather forecasts help farmers plan when to plant and harvest crops, airlines decide on flight routes, and emergency responders prepare for natural disasters. By understanding the atmosphere, meteorologists contribute to public safety and well-being.

### CAREER OPPORTUNITIES

For those interested in atmospheric science, a career as a meteorologist offers exciting opportunities. Meteorologists can work for government agencies, research institutions, universities, or private companies. They may specialize in areas such as severe weather, climate change, or air quality.

### APPRECIATING METEOROLOGISTS

On National Weatherman's Day, we celebrate the contributions of meteorologists to our understanding of the atmosphere and weather. It's a day to show appreciation for the hard work and dedication of these scientists who help keep us informed and safe. So, let's give a shoutout to meteorologists for their vital role in atmospheric science!

## READING COMPREHENSION

COLORED & B/W  
VERSIONS INCLUDED



Name\_\_\_\_\_

Date\_\_\_\_\_

# ATMOSPHERIC SCIENCE

DIRECTIONS CHOOSE THE CORRECT ANSWER.

## 1. What is atmospheric science?

- a) The study of the Earth's oceans
- b) The study of the Earth's atmosphere
- c) The study of plants and animals
- d) The study of rocks and minerals

## 2. What role do meteorologists play in atmospheric science?

- a) They study the oceans
- b) They study the atmosphere and weather patterns
- c) They study plants and animals
- d) They study rocks and minerals

## 3. What are the layers of the Earth's atmosphere?

- a) Troposphere, stratosphere, mesosphere, thermosphere, and exosphere
- b) Crust, mantle, outer core, inner core
- c) Lithosphere, hydrosphere, biosphere, atmosphere
- d) None of the above

## 4. What is the main purpose of weather forecasting?

- a) To entertain people
- b) To help farmers plan their crops
- c) To help people plan their activities and stay safe
- d) To sell umbrellas

## 5. What tools do meteorologists use to study the atmosphere?

- a) Thermometers, barometers, and anemometers
- b) Telescopes, microscopes, and compasses
- c) Calculators, computers, and smartphones
- d) Rulers, pencils, and erasers

## SHORT ANSWER QUESTIONS

1. What is atmospheric science?
2. What tools do meteorologists use to study the atmosphere?
3. How do weather forecasts benefit society?
4. Where can meteorologists work?
5. What is celebrated on National Weatherman's Day?

## 6. How do weather forecasts benefit society?

- a) They help farmers decide when to plant crops
- b) They assist airlines in planning flights
- c) They aid emergency responders in disasters
- d) All of the above

## 7. Where can meteorologists work?

- a) Coffee shops
- b) Government agencies, research institutions, or private companies
- c) Art galleries
- d) Libraries

## 8. What career opportunities are available in atmospheric science?

- a) Meteorologists can specialize in areas such as severe weather, climate change, or air quality
- b) Meteorologists can become professional forecasters
- c) Meteorologists can become chefs
- d) Meteorologists can become astronauts

## 9. What is celebrated on National Weatherman's Day?

- a) The invention of the umbrella
- b) The contributions of meteorologists to atmospheric science and weather forecasting
- c) The discovery of fire
- d) The first moon landing

## 10. How can we show appreciation for meteorologists?

- a) By showing gratitude for their hard work and dedication
- b) By using weather forecasts to plan our activities
- c) By showing appreciation for their hard work
- d) By showing appreciation for their hard work

# ANSWER KEY

## MCQS

1. b) The study of the Earth's atmosphere
2. b) They study the atmosphere and weather patterns
3. a) Troposphere, stratosphere, mesosphere, thermosphere, and exosphere
4. c) To help people plan their activities and stay safe
5. a) Thermometers, barometers, and anemometers
6. d) All of the above
7. b) Government agencies, research institutions, universities, or private companies
8. a) Meteorologists can specialize in areas such as severe weather, climate change, or air quality
9. b) The contributions of meteorologists to atmospheric science and weather forecasting
10. b) By showing gratitude for their hard work and dedication

## SHORT-ANSWER QUESTION

1. Atmospheric science is the study of the Earth's atmosphere.
2. Meteorologists use tools such as thermometers, barometers, and anemometers to study the atmosphere.
3. Weather forecasts benefit society by helping people plan their activities and stay safe during extreme weather events.
4. Meteorologists can work for government agencies, research institutions, universities, or private companies.
5. On National Weatherman's Day, the contributions of meteorologists to atmospheric science and weather forecasting are celebrated.

ANSWER KEY  
INCLUDED

10 - MCQ'S & 5  
QUESTIONS