

# Latitude, Longitude, and Location

Use this worksheet after reading the lesson to practise the key ideas and prove you can meet the success criteria.

Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

## 1. Key Ideas

Every place on Earth can be pinpointed with just two numbers. Latitude tells you how far north or south of the equator; longitude tells you how far east or west — and longitude directly determines your local time.

- Latitude measures north/south position; longitude measures east/west position
- Why longitude determines time and latitude does not

## 2. Success Criteria

By the end, you should be able to:

- Latitude measures north/south position; longitude measures east/west position
- Equator =  $0^\circ$  lat; Prime Meridian =  $0^\circ$  long
- Earth rotates  $360^\circ$  in 24 h  $\rightarrow$   $15^\circ$  per hour;  $1^\circ = 4$  minutes

## 3. Key Terms

### Formula

A rule showing the relationship between variables using symbols.

### Substitution

Replacing variables with their known values in an equation.

### Unit Conversion

Changing a measurement from one unit to another.

### Capacity

The amount of liquid a container can hold, measured in litres or millilitres.

### Perimeter

The total distance around the outside of a shape.

### Area

The amount of space inside a two-dimensional shape.

## 4. Activity: Build the Lesson Map

Use the lesson to complete the table. Keep answers brief but specific.

Prompt	Your answer
Main concept	
Important example	
Common mistake to avoid	
How this links to the next lesson	

## 5. Short Answer Questions

1. Explain this lesson goal in your own words: "Latitude measures north/south position; longitude measures east/west position". Use one specific example from the lesson.

**BAND 3** **2 MARKS**

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2. Apply this idea to a new example: "Equator =  $0^\circ$  lat; Prime Meridian =  $0^\circ$  long". Show your reasoning clearly.

**BAND 4** **3 MARKS**

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3. Analyse why this idea matters for understanding Latitude, Longitude, and Location: "Earth rotates  $360^\circ$  in 24 h  $\rightarrow 15^\circ$  per hour;  $1^\circ = 4$  minutes".

**BAND 5** **4 MARKS**

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## 6. Extend: Apply the Idea

BAND 5/6

5 MARKS

**A student gives a memorised answer about Latitude, Longitude, and Location but does not use evidence or reasoning.**

Improve the answer by writing a stronger response that uses accurate terminology, a relevant example and a clear explanation.

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## 7. Multiple Choice

1. What is the best first step when answering a question about Latitude, Longitude, and Location?

- A. Identify the key concept being tested
- B. Write every fact from memory
- C. Ignore the command word
- D. Skip examples and evidence

2. Which answer would show stronger understanding of Latitude, Longitude, and Location?

- A. An answer with accurate terms and reasoning
- B. A copied definition only
- C. A single-word response
- D. An answer with no example

3. What should you do if a question asks you to explain?

- A. Link the idea to a reason or cause
- B. List unrelated facts
- C. Only draw a diagram
- D. Write the shortest possible answer

## 8. Success Criteria Proof

Finish with evidence that you can do each success criterion.

### SUCCESS CRITERION 1

Prove that you can: Latitude measures north/south position; longitude measures east/west position

**BAND 3** 2 MARKS

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### SUCCESS CRITERION 2

Prove that you can: Equator =  $0^\circ$  lat; Prime Meridian =  $0^\circ$  long

**BAND 4** 3 MARKS

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### SUCCESS CRITERION 3

Prove that you can: Earth rotates  $360^\circ$  in 24 h  $\rightarrow 15^\circ$  per hour;  $1^\circ = 4$  minutes

**BAND 5** 4 MARKS

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One thing I still need help with:

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