Tropical climate zone

Lesson objectives

- ▶ Identifying the location of countries that experience a tropical climate and comparing their proximity to the equator
- Examining the climatic conditions experienced in Jakarta, Indonesia, and Rio de Janeiro, Brazil, and comparing these to
- the rainforested areas in each country to draw conclusions about the relationship between climate and vegetation

Lesson plan

Introduction

Go to <https://tinyurl.com/ycxe289m> and click on the map of the world to display the four major climate zones. Discuss the location of the tropical climate zone in relation to the equator. In pairs, students use Google Earth[™] and a note-taking app (Notes) to list as many countries in the tropical climate zone as possible in five minutes. ^R A

Development

- Students scan the QR code or use the URL on page 27 to research weather and climate data for Jakarta, Indonesia, and Rio de Janeiro, Brazil. Students then use Google Earth™ to locate the Sumatran Rainforest and the Amazon Rainforest, and compare their location to Jakarta and Rio de Janeiro to draw conclusions about the relationship between climate and vegetation. R A ER
- ▶ In pairs, students use Google Earth[™] to find other countries that contain rainforests and compare their location to the tropical climate zone. Think-pair-share What colour shows the location of rainforests around the world? What is the relationship between tropical climates and rainforests? ^R ^A
- ▶ Individually, students plan and create a digital travel brochure advertising a sale on rainforest adventures to the Amazon Rainforest and the Sumatran Rainforest. Students explain the climate zone that rainforests are located in and provide specific geographical information about each rainforest. Students then email it to another student. ^C
- ► After viewing the travel brochure emailed to them, students write three questions they have about the weather and seasons in Brazil and Indonesia and email them back to the first student. The first student researches the answers to these questions and responds via email. Q R ER C

Conclusion

Conduct a brief survey: Would you visit a tropical rainforest? Students move to one side of the classroom for yes and the other side for no, then discuss their reasons why they would/would not visit a tropical rainforest. ER

Curriculum links

HASS Knowledge and Understanding

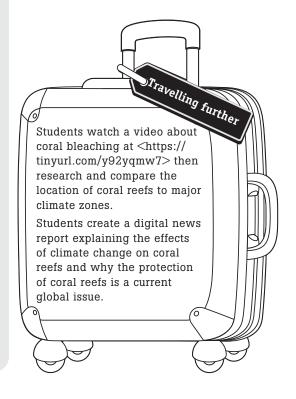
The main climate types of the world and the similarities and differences between the climates of different places (ACHASSK068)

HASS Inquiry and Skills

Questioning 💡	Researching P	Analysing 🗛	Evaluating and reflecting	Communicating 🔮
• Poses questions about the weather and seasons in Indonesia and Brazil	 Locates and collects information from Google Earth™, websites and videos Records, sorts and represents data in a table and using a note-taking app 	 Interprets maps and graphs to identify patterns in the location, climate and vegetation of countries in the tropical climate zone 	 Draws simple conclusions about the weather, climate and vegetation of countries in the tropical climate zone Interacts with others respectfully to share points of view about visiting tropical rainforests 	• Communicates understanding by creating a digital brochure using a presentation app of their choice

Resources

- World map-four major climate zones https://tinyurl.com/ycxe289m>
- ▶ iPad[®]/tablet with QR scanner, a notetaking app (Notes) and a selection of presentation apps for students to choose from (ShowMe/Seesaw/ Microsoft Word[™])
- ► Google Earth[™]
- ▶ Page 27



Major climate zones of the world

 Scan the QR code or go to <https://tinyurl.com/yb5m2jv9> to research climate data for Jakarta, Indonesia, and then use the same website to locate climate data for Rio de Janeiro, Brazil.



(a) Record key information about the climate of each city.

	Jakarta, Indonesia	Rio de Janeiro, Brazil
Temperature		
Hottest months		
Rainfall		
Wettest months		
Humidity		

- (b) Do you think it snows in Jakarta or Rio de Janeiro? Explain your reasoning.
- 2. Use Google Earth[™] to locate the Amazon Rainforest and the Sumatran Rainforest and compare their locations to the cities researched in Question 1. Then scan the QR code or go to <https://tinyurl.com/yd42ykm5> to learn about tropical rainforests.



- (a) In which climate zone will you find tropical rainforests?
- (b) Why do tropical rainforests grow in Indonesia and Brazil? Explain.