

## Night and Day

Why do we have night and day? Give as much detail as you can.

Why do different parts of the world have different time zones?

*Use the Time Zone sheet to answer these questions about time zones:*

1. If it is 8am in Great Britain, what time is it in Thailand?

2. If it is 6.30am in Ireland, what time is it in Argentina?

3. If it is 5pm in Kenya, what time is it in Greece?

4. If it is 3.15pm in Ghana, what time is it in Argentina?

5. If it is 11pm in Great Britain, what time is it in Alaska (USA)?

6. If it is midday in Sydney (Australia), what time is it in Perth (Australia)?

7. If it is 2pm in Iceland, what time is it in California (USA)?

8. If it is 10am in Cape Verde, what time is it in Great Britain?

9. If it is 9am in Tunisia, what time is it in Greenland?

10. If it is 8pm in Singapore, what time is it in Papua New Guinea?

11. Why do you think some countries have more than one time zone?

12. Name the countries on the sheet that have more than one time zone:

# Time Zones Around the World



Different areas of the world have different time zones. Time zones are usually compared to Greenwich Mean Time (GMT) and describe how many hours ahead (+) or behind (-) GMT the area is. For example, Paris would be GMT+1 as it is one hour ahead of Greenwich in London. So if it was 3 o'clock in London, it would be 4 o'clock in Paris.

GMT
Great Britain Ireland Iceland Ghana

GMT + 1
Belgium Italy Namibia Tunisia

GMT + 2
Egypt Greece South Africa Turkey

GMT + 3
Ethiopia Iraq Kenya Madagascar

GMT + 4
Armenia Azerbaijan Mauritius Seychelles

GMT + 5
Maldives Pakistan India Sri Lanka

GMT + 6
Bangladesh Bhutan Kazakhstan Burma

GMT + 7
Cambodia Indonesia Thailand Vietnam

GMT + 8
Perth (Australia) China Mongolia Singapore

GMT + 9
Japan North Korea South Korea Adelaide (Australia)

GMT + 10
Sydney (Australia) Micronesia Papua New Guinea Guam

GMT + 11
New Caledonia Solomon Islands

GMT + 12
Antarctica New Zealand

GMT - 1
Cape Verde Greenland Portugal

GMT - 2
Brazil (Fernando de Noronha) South Georgia

GMT - 3
Argentina Brazil French Guiana Suriname

GMT - 4
Barbados Chile Grenada British Virgin Islands

GMT - 5
Quebec (Canada) Cuba Jamaica New York (USA)

GMT - 6
Costa Rica Guatemala Mexico Texas (USA)

GMT - 7
Calgary (Canada) New Mexico (USA) Chihuahua (Mexico)

GMT - 8
Vancouver (Canada) California (USA) Ensenada (Mexico)

GMT - 9
French Polynesia Alaska (USA)

GMT - 10
Cook Islands Hawaii (USA)