

### Highland

Here the weather changes constantly due to the height of the mountains. It might be sunny and warm at the bottom of the mountain, however, as you walk up the mountain, the weather can become cloudy. Highland weather involves wind, rain, snow, cloud and sunshine.



Do you think many people live in the highland areas in India?



### Humid sub-tropical

Here the weather is usually very humid and hot. It only cools down for a few months of the year. It rains quite regularly which causes the air to be sticky and warm. This climate usually experiences strong storms such as hurricanes and tornadoes.



I wonder what animals and plants live in this area!



### Arid

Here it is very dry all year round with hardly any rain.

Temperatures are very high during the day and drop close to (or below) freezing in the night.

There is usually less than 10 inches of rainfall over a whole year.



Where would you find water in this area if it doesn't rain?



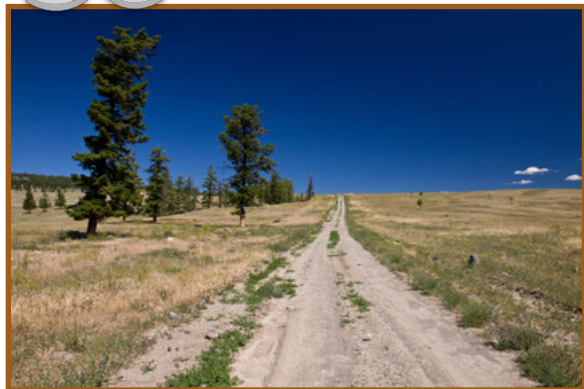
### Semi-arid

Here the weather is dryish with warm temperatures. This climate region is found on the edges of the arid climate.

Sometimes the weather can be hot and dry and other times it can be cool and moist. It does rain in this area, usually in the winter months.



Do you think it would be easy to have a farm in this area?



### Tropical wet

Here it is hot all year round and has lots of rain. The air is usually sticky and humid. Temperatures in this area stay the same and direct sunlight is always present in this region.

Rainfall is heavy in this area and it usually rains in the morning and afternoon. The hot weather and the rain makes the air feel very moist.



What kind of animals might live in the rainforests in India?



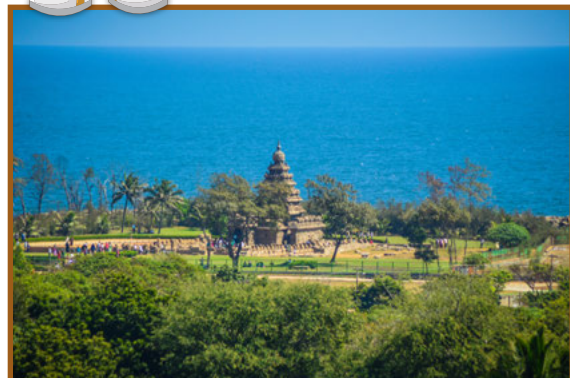
### Tropical wet and dry

Here the weather changes from hot and dry to hot and wet as the year goes on. The wet season is the summer and the dry season is the winter.

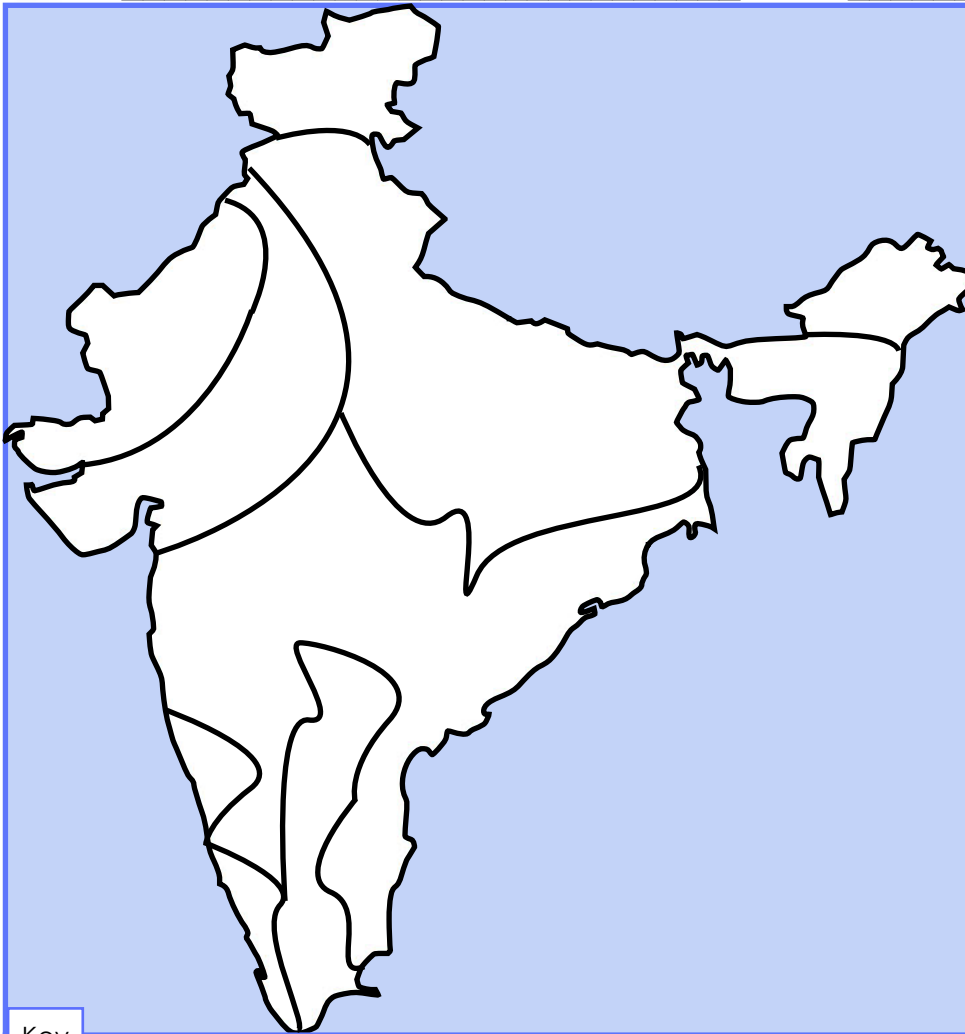
Temperatures in this area stay high all year round even in the winter. Rainfall occurs in the summer months and is usually named the monsoon season.



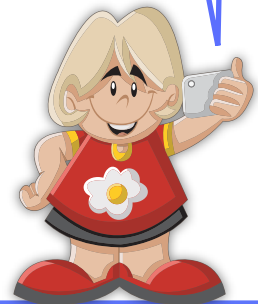
What is a monsoon? How might it affect people living in India?



Name: \_\_\_\_\_ Date: \_\_\_\_\_



Use the **Climate Cards**, the **India Climate Map** and the sentences below to help you label the **key**. Can you also **colour** the climate zones on the map?



Key

①		②		③	
④		⑤		⑥	

1	Here the weather changes constantly due to the height of the mountains.
2	Here it is usually very humid and hot. It only cools down a few months of the year.
3	Here the weather is dryish with warm temperatures.
4	Here it is very dry all year round with hardly any rain.
5	Here the weather changes from hot and dry to hot and wet in different seasons.
6	Here it is hot all year round and has lots of rain. The air is usually sticky and humid.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Use the **Climate Cards** and the **Climate Regions Map** to help you answer these questions.

Name two Indian cities found in the humid sub-tropical zone:

Name two Indian cities found in the tropical wet and dry zone:

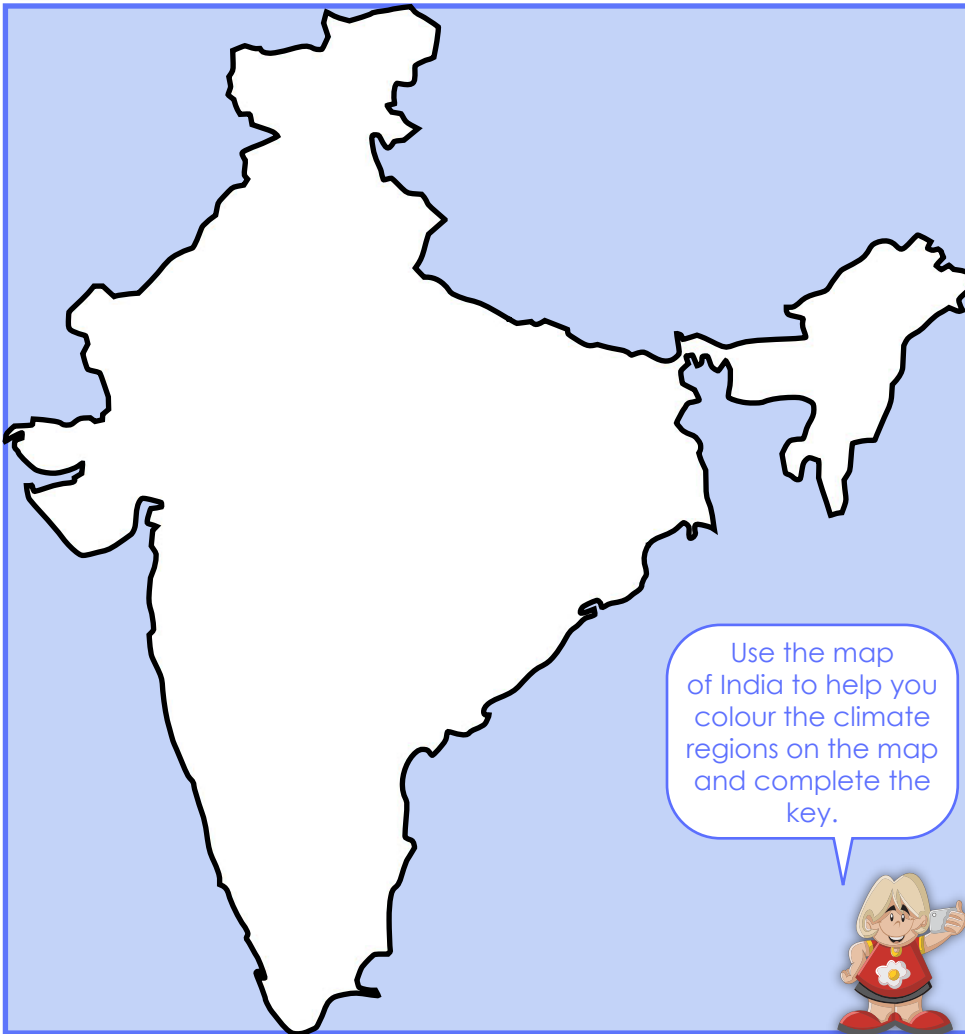
What climate zone is in the north of India and what is the weather like there?

What climate zone is in the south-west of India and what is the weather like there?

Which zone is the driest? Is this zone in the west or east of India?

Which zone is the wettest? Is this zone in the west or east of India?

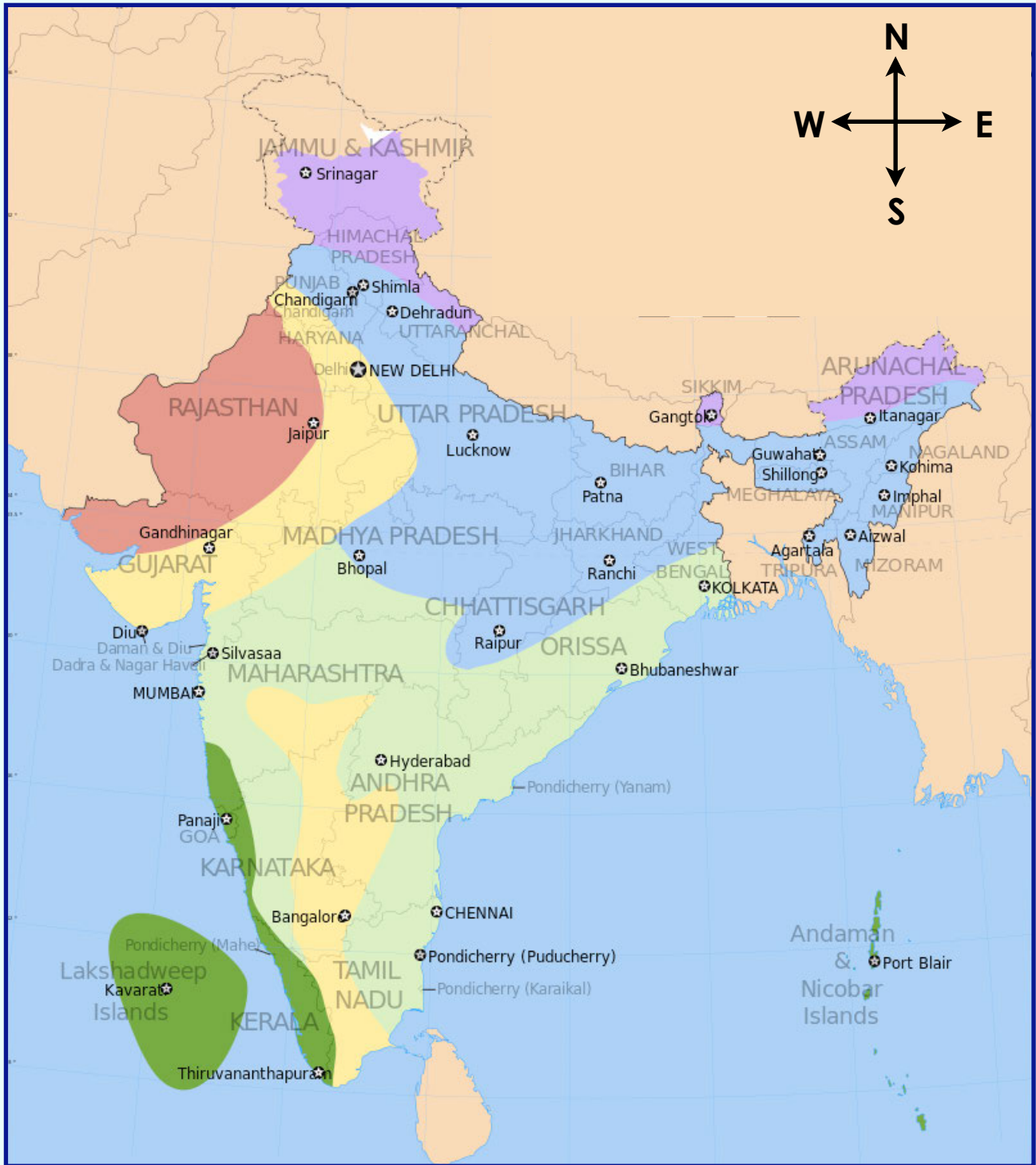
Name: \_\_\_\_\_ Date: \_\_\_\_\_



KEY


Use the **Climate Zone Cards** to help you answer these questions about the climate regions in India?

1. In which climate region would you find a desert area? \_\_\_\_\_.
2. In which climate region would you find a rainforest? \_\_\_\_\_.
3. Which climate region has rainfall most of the time? \_\_\_\_\_.
4. In which climate region would you see mountains? \_\_\_\_\_.
5. Which climate region has a monsoon season? \_\_\_\_\_.
6. Which climate region would you like to live in? \_\_\_\_\_.



Tropical wet

Tropical wet and dry

Humid sub tropical

Semi-arid

Arid

Highland

## Monsoons in India

A monsoon is a strong seasonal wind that occurs in South-East Asia. The wind changes direction due to different air pressure. The result of this is extreme **wet** weather and extreme **dry** weather.

In India, from June to September, the wet monsoon occurs. Rain and storms are constant during this time and it can rain for days and days. The weather is very unpredictable. It can be sunny one minute then rain heavily, for hours, the next.

The wet monsoon in India is known as the **summer monsoon**.



Torrential rain in the streets of India.



Sometimes the summer monsoon in India is very severe. The wind can bring harsh thunderstorms, large hail storms, strong tornadoes and hurricanes.

Low lying villages and towns along the coast of India have been destroyed by these storms and some people have died as a result.



Many cities in India experience **flooding** due to the large amount of rainfall during the monsoon. This causes problems for farmers, as their crops get washed away. Floods can also destroy homes.

Not all monsoons in India are severe. Some areas of India have light rainfall during the monsoon months, which doesn't cause a problem.



Do you like rain and storms?  
Have you been caught in a heavy  
downpour?  
Does it rain a lot where you live?





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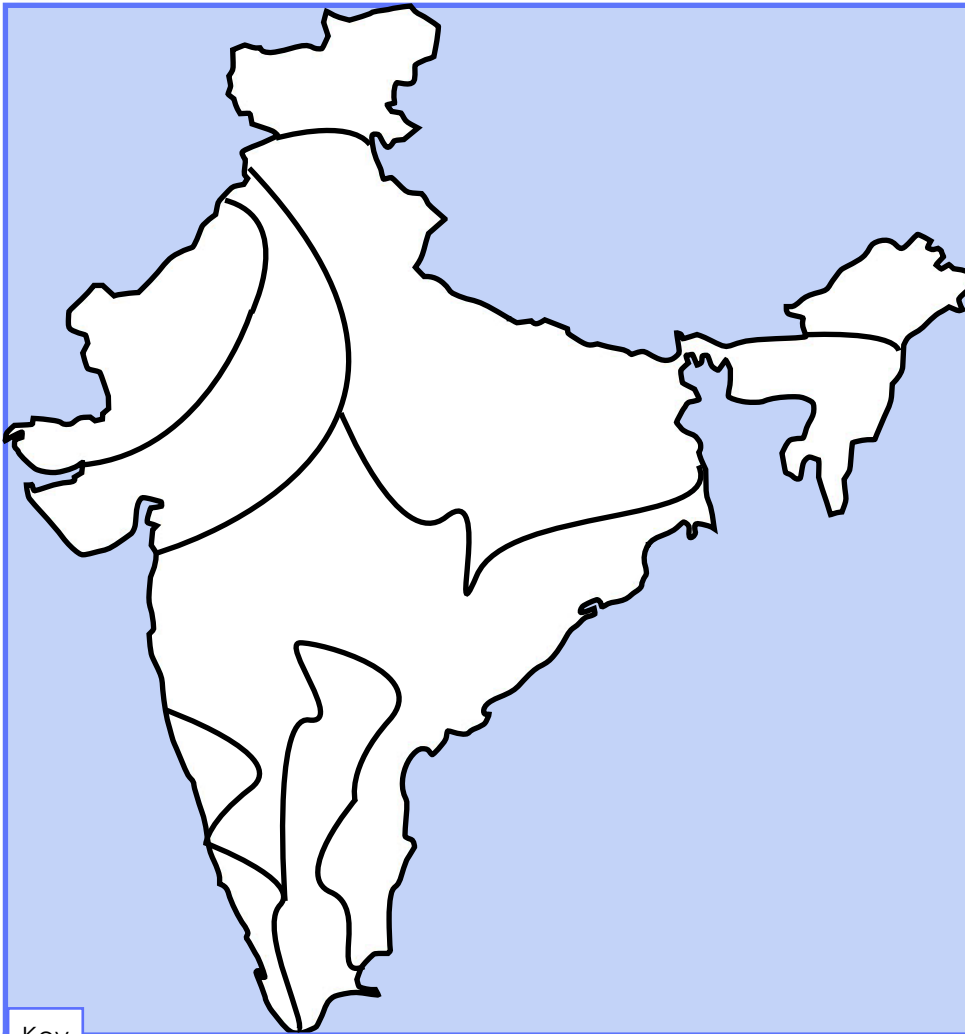
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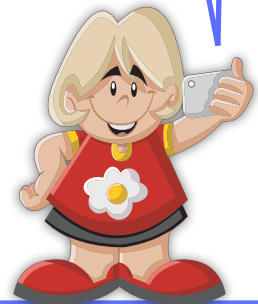
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Use the **Climate Cards**, the **India Climate Map** and the sentences below to help you label the **key**. Can you also **colour** the climate zones on the map?



Key

①	<b>HIGHLANDS</b>	②	<b>HUMID SUB TROPICAL</b>	③	<b>SEMI-ARID</b>
④	<b>ARID</b>	⑤	<b>TROPICAL WET AND DRY</b>	⑥	<b>TROPICAL WET</b>

1	Here the weather changes constantly due to the height of the mountains.
2	Here it is usually very humid and hot. It only cools down a few months of the year.
3	Here the weather is dryish with warm temperatures.
4	Here it is very dry all year round with hardly any rain.
5	Here the weather changes from hot and dry to hot and wet in different seasons.
6	Here it is hot all year round and has lots of rain. The air is usually sticky and humid.



Use the **Climate Cards** and the **Climate Regions Map** to help you answer these questions.

Name two Indian cities found in the humid sub-tropical zone:

BHOPAL, RAIPUR, RANCHI, PATNA, LUCKNOW, CHANDIGAR, SHIMLA, DEHRADUN, GUWAHAI, SHILLONG, AGARTALA, ITANAGAR, KOHIMA, IMPHAL, AIZAWL

Name two Indian cities found in the tropical wet and dry zone:

SILVASA, MUMBAI, HYDERABAD, CHENNAI, PONDICHERRY, BHUBANESHWAR, KOLKATA

What climate zone is in the north of India and what is the weather like there?

HIGHLAND – THE WEATHER CHANGES CONSTANTLY, AND INCLUDES WIND, RAIN, SNOW, CLOUD AND SUNSHINE.

What climate zone is in the south-west of India and what is the weather like there?

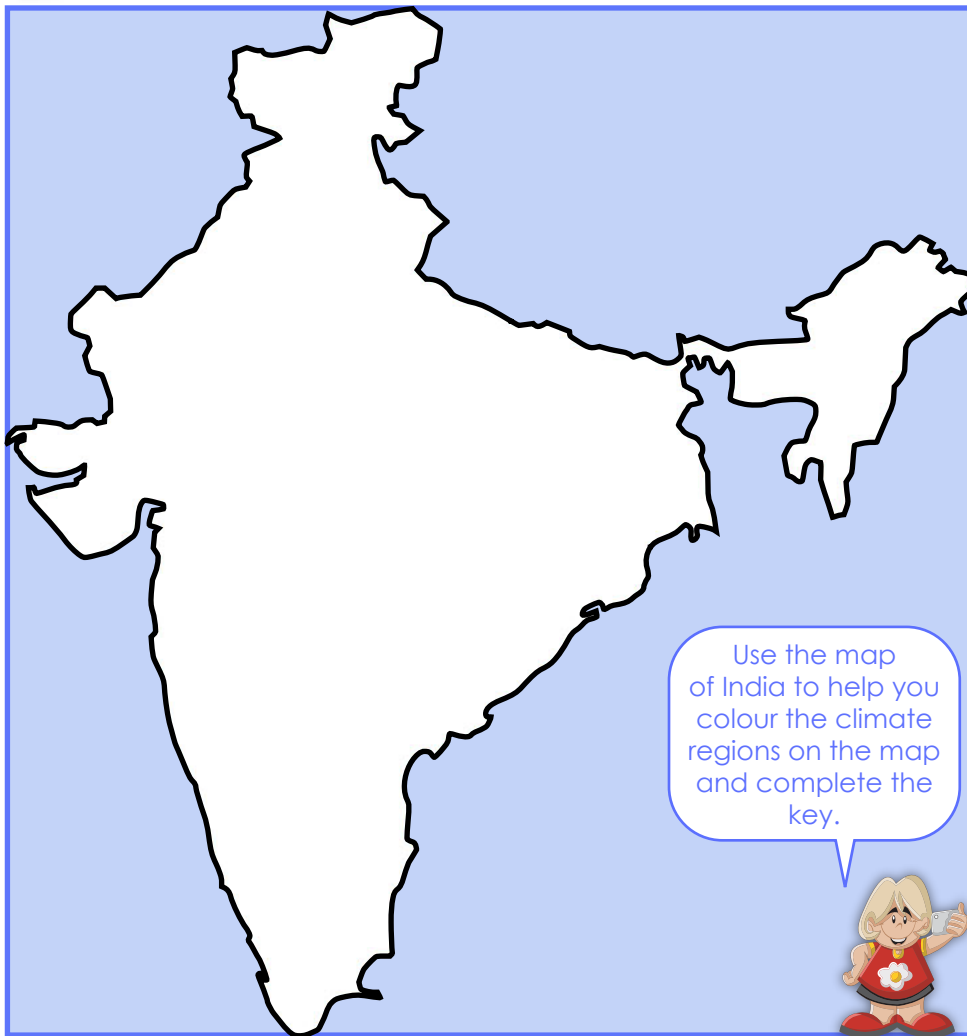
TROPICAL WET – IT IS HOT AND HUMID ALL YEAR ROUND, WITH LOTS OF RAIN.

Which zone is the driest? Is this zone in the west or east of India?







ARID. IT IS IN THE NORTH WEST OF INDIA.

Which zone is the wettest? Is this zone in the west or east of India?

TROPICAL WET. IT IS IN THE SOUTH WEST OF INDIA.



**KEY**

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Use the **Climate Zone Cards** to help you answer these questions about the climate regions in India?

- In which climate region would you find a desert area? **ARID**
- In which climate region would you find a rainforest? **TROPICAL WET**
- Which climate region has rainfall most of the time? **TROPICAL WET**
- In which climate region would you see mountains? **HIGHLAND**
- Which climate region has a monsoon season? **TROPICAL WET AND DRY**
- Which climate region would you like to live in? \_\_\_\_\_