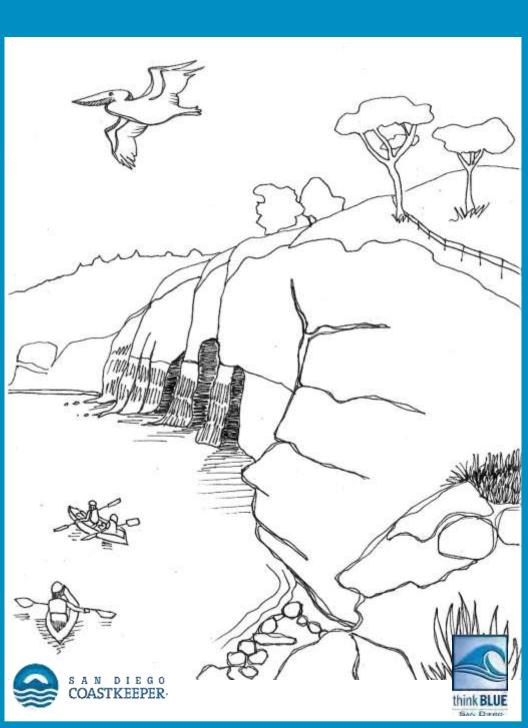
Weather & Climate Activity Book



What's the Difference?

Many people talk about weather and climate as if they're the same thing, but they are different!





Weather is the day to day conditions outside like rain, sun, or wind. Weather can be observed in minutes or days.



Climate is the patterns in a place's weather over a long time. Climate can only be observed over long amounts of time- 30 years or more.

Fill in the Blanks

DIRECTIONS: Use the word bank to complete the sentences.

climate	dry	short
weather	winter	thirty

_____ can be observed in _____ periods of time like minutes or days. It may look like a rain storm, a sunny day, or snow. Scientists can study a place's _____ by looking at weather patterns over _____ years or longer.

San Diego has a Mediterranean climate, which is named after a part of Europe with the same climate. This type of climate has a warm, ____ summer and a mild, wet _____

Word Search



DIRECTIONS: Help us find the words below.

Temperate Rain

Tropical Wind

Sunny Cloudy

Patterns Precipitation

Temperature

HWFAXRAINYTFDWF SNCPJTXVCLETRGZ UWMRQXDNOCMSH EOBWIBEP CXLRWET FT TAORUT TXEAVMC YFAZE MWEXNO PVWWU R R X UKGS K В DHH Р Х UKNGEZWM QDYBEUZPATTERNS

Climate Around the World

DIRECTIONS: There are other places in the world with a climate like ours. On the map below, color in the outlined areas that have the same climate as San Diego.



Look at the table below. Do you think San Diego and Valencia (a city in Spain) have very similar or very different climates?

Month	Temperature in San Diego (°F)	Temperature in Valencia (° F)	Month	Temperature in San Diego (°F)	Temperature in Valencia (° F)
Jan	66	60	Jul	76	86
Feb	66	62	Aug	77	86
Mar	67	66	Sep	77	82
Apr	69	70	Oct	74	75
May	69	73	Nov	70	68
Jun	72	80	Dec	66	62

Climate Postcards



DIRECTIONS: Imagine you have a pen pal in Valencia, Spain who is visiting San Diego for the first time. On the back of the postcard, write 2-3 sentences about San Diego's climate. How is the climate similar to or different from where they live? What clothes should they bring? Then, on the front of the postcard, draw a picture of weather they might experience.

Dear,	
From, (your name)	

Draw your picture here \uparrow

Amazing Adaptations

An adaptation is a trait that helps an organism survive in its habitat. Many of San Diego's plants have adapted to our climate. Because summers are usually warm and dry, plants need to stay cool and save water.

DIRECTIONS: Draw a line from the adaptation to the picture it matches.

This plant's leaves fold like a taco, giving shade that keeps the plant cool

This plant's thin, needle-like leaves don't lose as much water as big leaves

This plant has white leaves that reflect sun, keeping it cool

This plant's leaves and berries have a waxy coating that holds in water

This plant stores water in hollow spaces in its oval shaped "pads"



Design a Plant

ADAPTATIONS:



DIRECTIONS: Plants adapt to the conditions of the climate where they grow. Choose at least 2 of the adaptations below, and then draw your own imaginary plant that is specially adapted to San Diego's climate. Make sure to label the adaptations you chose.

thin, needle-like leaves	hollow area for water
	thin, needle-like leaves

DID YOU KNOW?

San Diego is getting warmer over time. As temperatures go up, scientists say that we will experience:

- More droughts (periods of time with less rain than normal)
- Ocean levels getting higher
- More hot days
- More wildfires

The more the temperature rises, the more this will affect people, plants, and animals.

PLEDGE FOR OUR CLIMATE

Now that you have learned about weather and climate, you can take action to make a difference. Sign the pledge and then color in the badge. Thank you for being a climate helper!

I promise to care for our climate. I will help by:

- Walking, taking the bus, or riding a bike as much as I can
- Turning off the lights when I'm not in the room
- Switching from plastic items to reusable ones
- Learning more about what I can do to help the environment
- Sharing what I know with others.

Signed,

(your name)

