

# Resilience Scavenger Hunt

Climate change is impacting the whole Earth, including the Sacramento-San Joaquin Delta. We have some big challenges ahead as our region changes over the next 30 years. In order to adapt to a world with increased flooding, drought, wildfire, and intense heat, we need to start by understanding what's going on!

How are you affected by climate change? Complete the scavenger hunt activities below and show us what you discover!

## Instructions:

1. **Tell us about yourself!** Fill out the participant information in the box below.
2. **Complete activities** (as many as you can). Feel free to ask an older friend or family member if you need a little help!
3. **Submit** your completed Resilience Scavenger Hunt and any photos or drawings to [climatechange@deltacouncil.ca.gov](mailto:climatechange@deltacouncil.ca.gov) by **February 26, 2021**.
4. **Print your Certificate of Participation** and give yourself a high five! Each activity on the list is worth 1 point (but keep an eye out for bonuses!). Depending on how many points you earn you'll receive the following:



**Rising Star Certificate: 1-5 points**



**Super Sleuth Certificate: 6-12 points**



**Climate Wiz Certificate: 13+ points**

## Participant information:

Name:

Grade:

Which city or community do you live in?

Can we feature your answers on the Council's social media accounts?

YES, PLEASE POST!

NO, THANK YOU!



### Activity # 1

As the planet gets warmer, sea levels all over the world are rising, including in California. Warming temperatures also allow the atmosphere to hold more moisture, leading to heavier rains. With these two impacts combined, we'll probably have more flooding in the Delta.

Levees protect us from flooding by creating a raised barrier between the water and land. When the water is higher than the levee, the land can flood – this is called “overtopping.”

What is the probability that where you live will experience flooding from overtopping? Check out the maps on pages 31 and 33 of chapter 4 in this [report](#).

**Today** \_\_\_\_\_

**In 2050** \_\_\_\_\_

### Activity # 2

Find a levee near you!

**HINT:** any water’s edge is a good place to start looking!

- If you can, walk out on the levee, strike a pose, and snap a pic!
- If you can’t access a levee, draw a picture or send us a screen shot from Google Maps!

**BONUS (+ 1 point)** How can your community change the levee to adapt to climate change?

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### Activity # 3

Climate change is already affecting temperatures. July 2019 was the hottest month ever recorded for the entire planet!

How many extreme heat days are expected in your county in 2050? Check out the tables on pages 6 to 8 of chapter 5 in this [report](#).

**County** \_\_\_\_\_

**# of extreme heat days** \_\_\_\_\_

What do you do to stay cool when it's super hot?

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### Activity # 4

Did you know trees are nature's air conditioners? They shade our streets and cool the air by releasing water through their leaves. On top of all that, they also gobble up carbon dioxide, which is one of the gases causing climate change. Pretty cool!

**Hug a tree and snap a photo or do a drawing.**

**BONUS:** Go online and look up the names of up to three tree species that are native to the Delta.

Tree 1 (+ 1 point): \_\_\_\_\_

Tree 2 (+ 1 point): \_\_\_\_\_

Tree 3 (+ 1 point): \_\_\_\_\_



### Activity # 5

Climate change means warmer, drier summers, and that makes it easier for forests to burn.

Wildfire smoke is no joke! Smoky air is unhealthy, and some people can become seriously ill if they breathe in even a little bit of it. It's important to keep an eye on the Air Quality Index, or AQI, to make sure the air is safe to breathe.

What are the six categories of AQI? Use this [website](#) to learn all about it:

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**BONUS (+ 1 point):** What's the AQI where you live right now? \_\_\_\_\_

HINT: find it through the AQI website linked above!

### Activity # 6

The best thing you can do when there's a lot of smoke is stay indoors. This might feel like a bummer in summer, when everything you want to do is outdoors!

What are three fun things you can do inside to keep yourself busy and active when there's too much smoke outside? You can also send a photo or drawing!

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**BONUS (+ 4 points):** A lot of people like to go camping in summer, but camping is dangerous in smoky conditions. With a little creativity you can go "camping" indoors instead! Give it a try: build your best indoor fort or tent and send us a photo!



A drought is a long period of time with less rain and snow. Warmer temperatures will make it harder to store water upstream of the Delta, whether in snowpack or in reservoirs. This means there could be less water available during dry summer and fall months. That's why it's more important than ever to do what we can to save water.

### Activity # 7

Which water-saving strategies do you use at home?

- Turn off the water while brushing your teeth. You are saving **6 gallons** a day!



- Take short showers (5 minutes or less). You are saving **12 gallons** a day!
- Wash fewer, full loads of laundry. You are saving up to **25 gallons** a day!



### Activity # 8

How many of these water-saving strategies can you find in your neighborhood?

- Drought-tolerant plants



- Rain barrels
- Recycled water (look for purple pipes!)



# DELTA ADAPTS



## Activity # 9

**Vulnerability** is when a place – and the people who live there – are likely to be negatively affected by climate change.

It's important to be aware of our climate change vulnerabilities so we can be prepared and come up with solutions ahead of time. The Delta is changing, but if we think ahead and work together, we can still protect what we care most about.

What's something you love that might be affected by climate change? Photos or drawings also welcome!

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## Activity # 10

**Adaptation** means changing how we think and act so we can live in a world with climate change.

Some adaptations require cooperation by lots of people in the community, state, country, or even the whole world! But adaptation is also something families or individual people can do.

You've learned a little bit about floods, extreme heat, wildfires, and drought. What's one thing you might have to do differently to protect yourself from these climate change impacts?

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**BONUS (+1 point)** What's something you're already doing to get ready for climate change?

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