Summer Newsletter July 22, 2019

School • Community • Student • Parent
LEARNING CONNECTIONS

Tahoma School District No. 409

iSeeChange

iSeeChange is a community weather and climate journal for participants nationwide that uniquely combine citizen observations (photos and text) with, cutting-edge weather and satellite data. iSeeChange also works to connect the public to journalists and scientists who can help answer and report on climate related questions. Currently, the project is partnering with NASA to create a citizen science corps that will correlate community experiences to space-based observations of atmospheric carbon dioxide levels, season-to-season, year-to-year.

I SEE CHANGE
COMMUNITY CLIMATE & WEATHER JOURNAL

THE GLOBE PROGRAM
GLOBE Observer

The Global Learning and Observations to Benefit the Environment (GLOBE) Program is an international science and education program that provides students and the public worldwide with the opportunity to participate in data collection and the scientific process, and contribute meaningfully to our understanding of the Earth system and global environment. Your observations help scientists track changes in clouds, water, plants, and other life in support of climate research. Scientists also use your data to verify NASA satellite data. And by submitting your observations, you can help students of all ages do real scientific research as part of the GLOBE Program. To participate, just download the app, go outside and follow the prompts in the app to observe your environment.

IN THE COMMUNITY

✓ **Shadow Puppet Space Race Craft Workshop**
Tuesday, July 30, 2019 (6:00PM – 7:00PM). Kent Library. Ages 8 and older. Design and make your own shadow puppet spacecraft using a variety of materials, then race your vehicle through a galactic obstacle course!

✓ **Beginning Batik Art Workshop**
Wednesday, July 31, 2019 (3:00PM – 4:00PM) Kent Library. Ages 9 to 19. Resist dyeing techniques are used on textiles by cultures around the world. Learn all about Japanese, Indian and Indonesian batik and dye your own fabric using non-toxic dyes. All materials provided.

✓ **Crafting for a Cause**
Thursday, August 1, 2019 (3:00PM – 4:30PM). Sammamish Library. Entering grades 6 to 12. Spend your afternoon volunteering your time, crafting for a cause. We'll have supplies and will work together on specific craft projects that will benefit other organizations. No art or craft skills necessary! Sponsored by the Friends of the Sammamish Library.

✓ **Summer Sounds & Cinema**
Friday, August 2, 2019. (7:00PM - 11:00PM). Sunset Park, in Auburn. 7:00 PM - The Marlin James Band (wide variety country favs). Dusk - Ralph Breaks the Internet (PG)

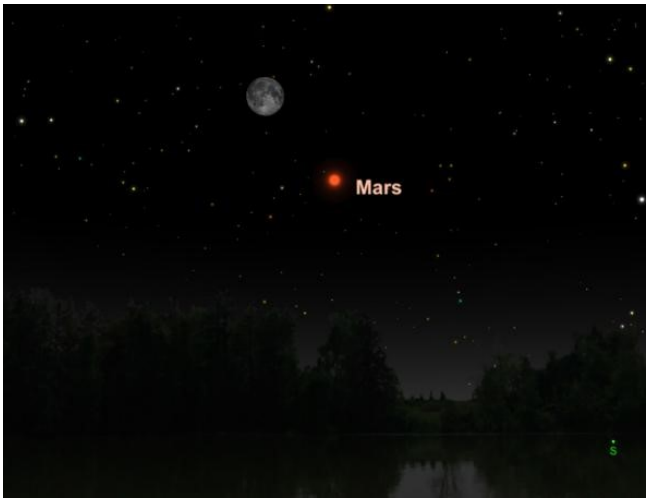
✓ **Mobile Makerspace: Scrap Satellites Science Workshop**
Saturday, August 3, 2019 (10:00AM – 12:00PM). Sammamish Library. Grades 6 and older. Construct your own unique satellite out of recycled materials, and learn to solder together circuitry to transmit light. Discuss the technology that allows a satellite to orbit the earth, and how scientists are using the data they collect. Space is limited to the first 30 participants.

Stargazing 101

Our summer weather brings some wonderful opportunities for stargazing. The sky is enormous and filled with mysterious and interesting sights. Learning the constellations can be a great way to pass a clear evening. Starting with the brightest stars and the clearest formations, you can learn to spot constellations such as the Big Dipper (Ursa Major) or Orion the Hunter, constellations that have been familiar throughout history. For more information on the night sky check out some websites, like Sky at a Glance.

Apollo 11 landed on the moon 50 years ago this past weekend. Look for the moon after sunset and you can watch it move past Jupiter, later this week Saturn will be right by the waxing gibbous moon. Finally, Mars will shine at the end of the week. Read more in National Geographic.

July 27: Mars at Its Best



On July 27th Mars will seem to glide close to the moon just as it reaches its peak visibility for the year. The red planet will be at opposition, when it sits opposite to the sun in the sky, from our perspective. During opposition, Mars will look like a super-bright orange star in the southern sky.

Mars does not have a perfectly circular orbit around the sun, so the red planet gets nearer and farther from Earth over time. This year, Mars will be especially close to Earth shortly after opposition, coming within 35.8 million miles of us on July 31. This combination means that Mars will be at its biggest and brightest since 2003, and it won't get this close to us again until 2035.

While the planet will look spectacular to the naked eye, people using backyard telescopes will have exceptional views of various Martian surface features, such as its white polar caps and dark volcanic plains.

Check out EarthSky

EarthSky

Help CosmoQuest make maps of our Solar System

CosmoQuest invites you to help NASA scientists make maps of scientifically interesting features in our Solar System. You can map craters on the Moon, and trace the splatter of asteroid impacts on Vesta. All these worlds are yours to explore!