

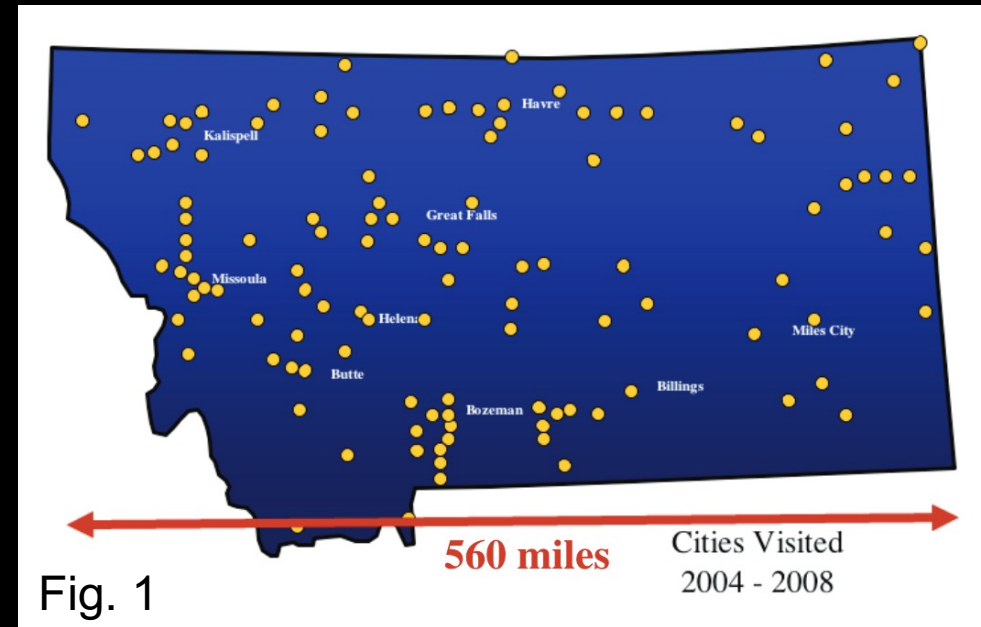
Space Public Outreach Team: Engaging Families in STEM Learning

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What is SPOT?



Why is Family Engagement Important?

Success!





MONTANA SPACE GRANT
CONSORTIUM PRESENTS

THE SUN-EARTH CONNECTION

Get ready for liftoff!

**WEDNESDAY JULY 21,
5:30 - 7 PM**

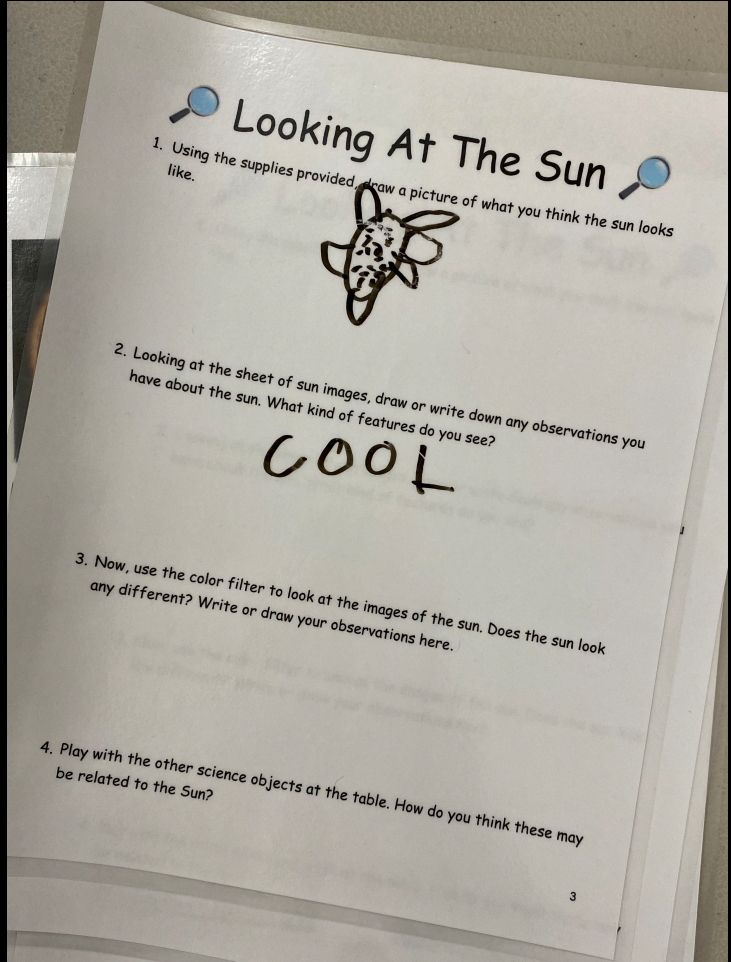
Come explore our extraordinary sun
while enjoying pizza and cupcakes!



BELGRADE
COMMUNITY
LIBRARY



Activities



SPOT, FLARE, EJECT!





How often does your family do science stuff together?

Not at all

14.3%

Once in a while

21.4%

Sometimes

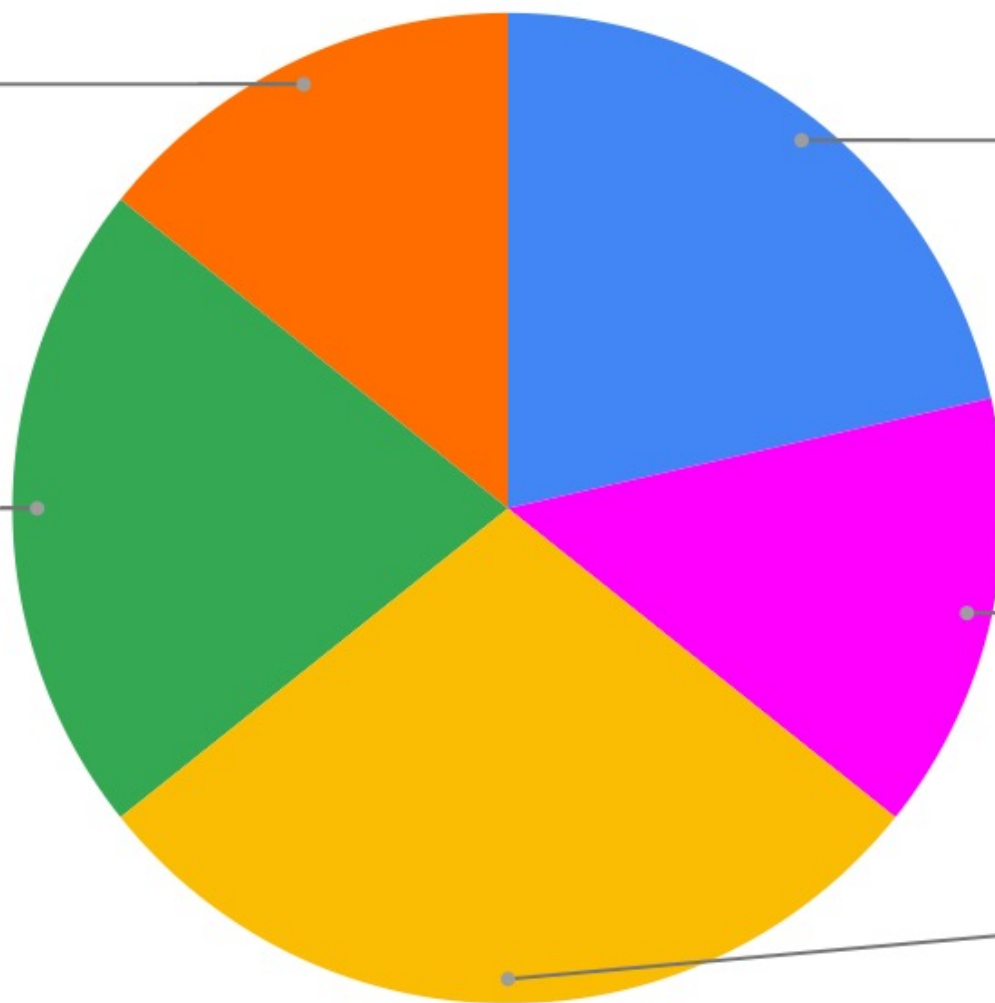
21.4%

Quite a bit

14.3%

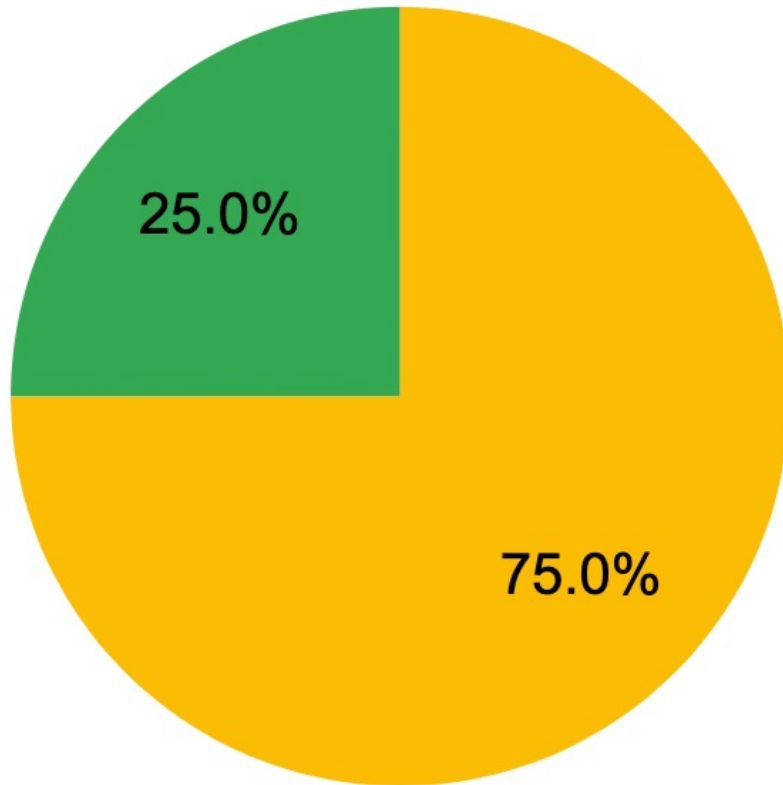
A whole lot

28.6%



Learning Evaluation

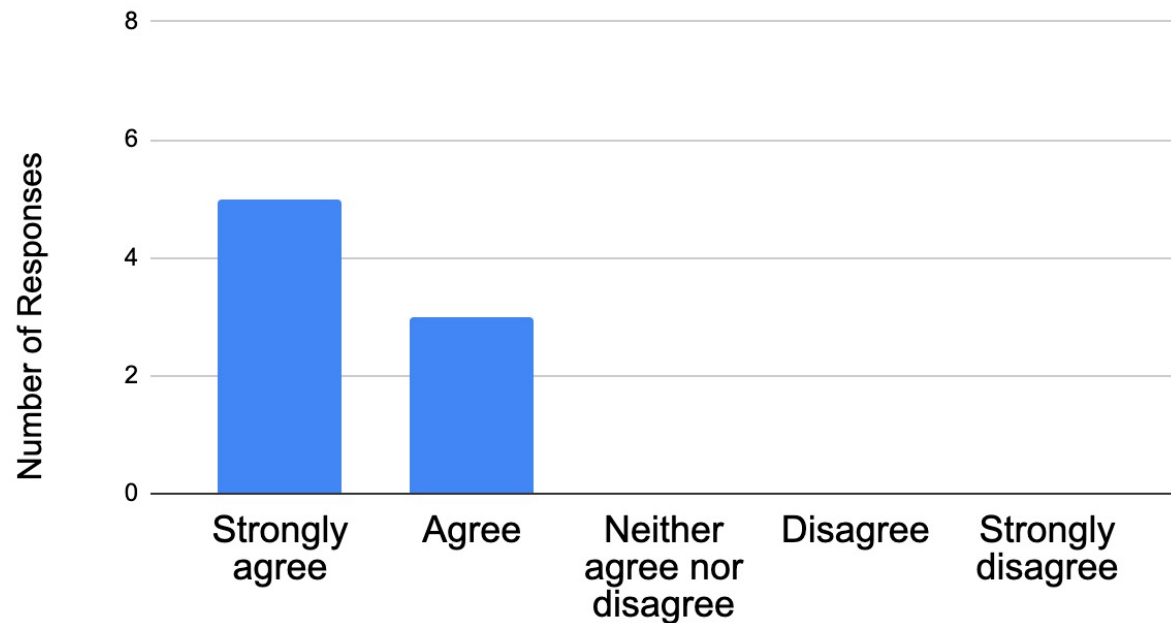
Which of the following is an example of how the Sun affects the Earth?



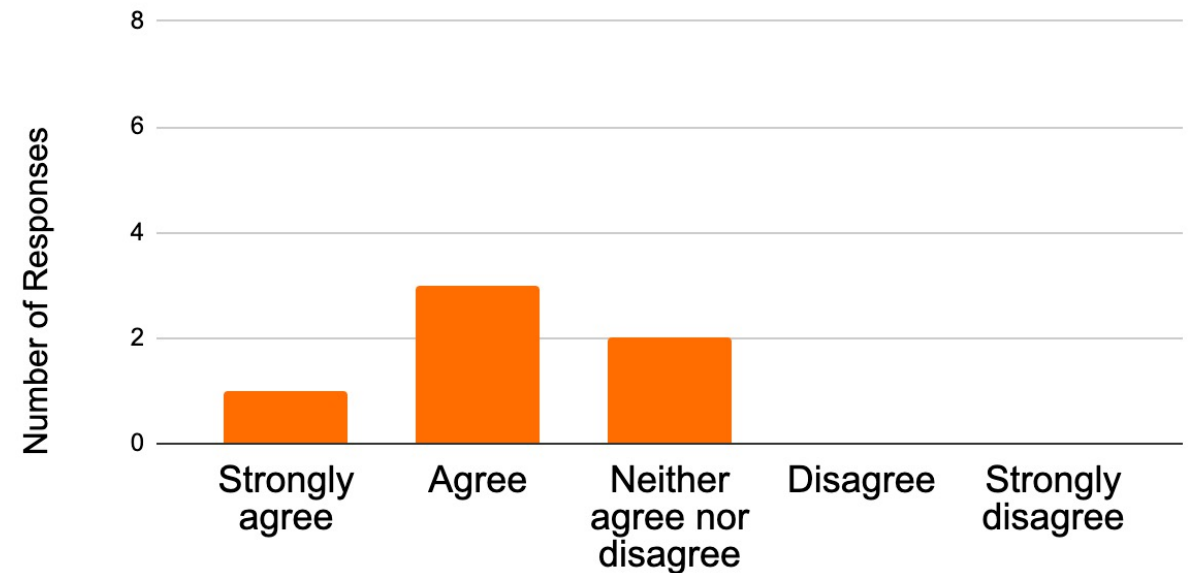
- It causes auroras and geomagnetic storms
- It causes the Earth to rotate on its own axis
- It causes volcanic eruptions
- The Sun does not affect the Earth

The presentation and activities...

Were fun and interesting.

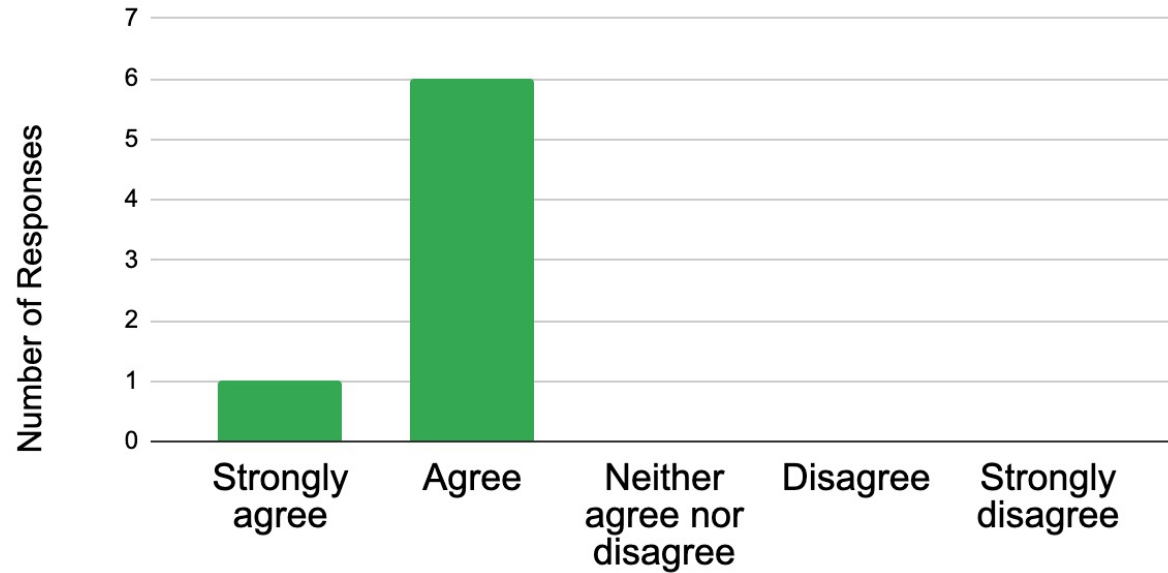


Made me more interested in having a job in science.

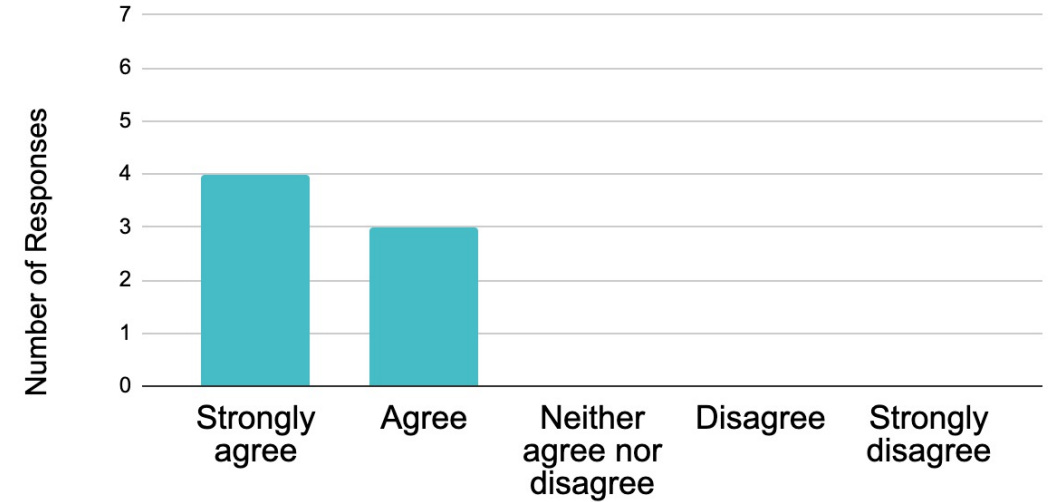


Parent Feedback

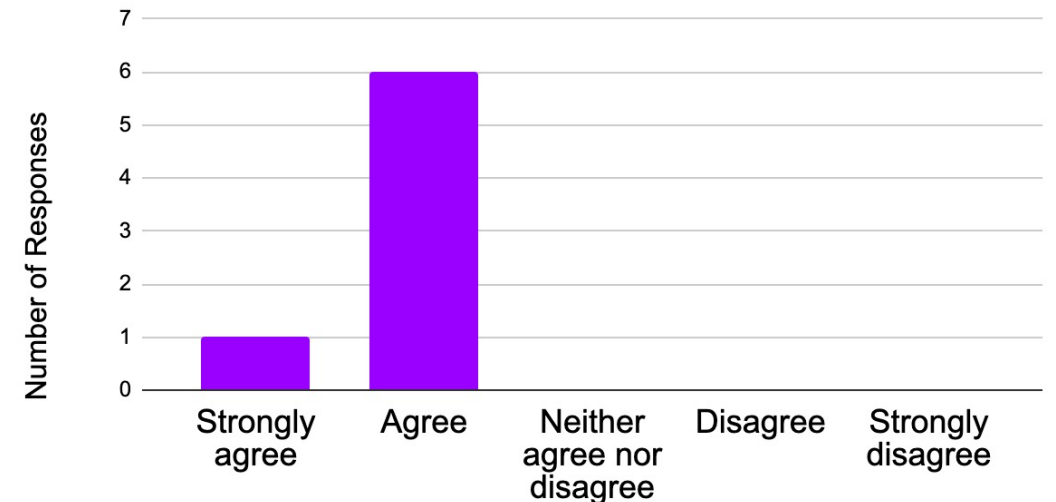
Made me think about how I could get my child more involved with science.



I would recommend attending this presentation to my friends who have kids.



I plan to talk with my child about this presentation and activities in the future.



What stood out to you as the best part of this presentation?

- Parents/Guardians
 - “The game they played about spots, flares, and ejections.”
 - “Showing the local people involved in the research.”
 - “Interactive nature of the presentation.”
- Students
 - “To buw [play] rock, paper, sisers [scissors].”
 - “The best part was making the cupcakes!”

Conclusions & Future Steps

Thank you!

Questions? Email fanjieh@g.ucla.edu

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Works Cited

- Slide 1
 - Fig. 1: Des Jardins, A., Key, J., Williamson, K., Kimbrell, S., De Saint-Georges, S., Page, J., Dolch, T. & Littenberg, T. (2020). Space Public Outreach Team: Successful STEM Engagement on Complex Technical Topics. *Journal of Computers in Mathematics and Science Teaching*, 39(4), 339-359. Waynesville, NC USA: Association for the Advancement of Computing in Education (AACE).
- Slide 3
 - Silander, M., Grindal, T., Hupert, N., Garcia, E., Anderson, K., Vahey, P. & Pasnik, S. (2018). What Parents Talk About When They Talk About Learning: A National Survey About Young Children and Science. New York, NY, & Menlo Park, CA: Education Development Center, Inc., & SRI International.
 - Weiss, H., Bouffard, S., Bridglall, B., & Gordon, E. (2009). *Reframing Family Involvement in Education: Supporting Families to Support Educational Equity*.