

# EXPLORING AT HOME

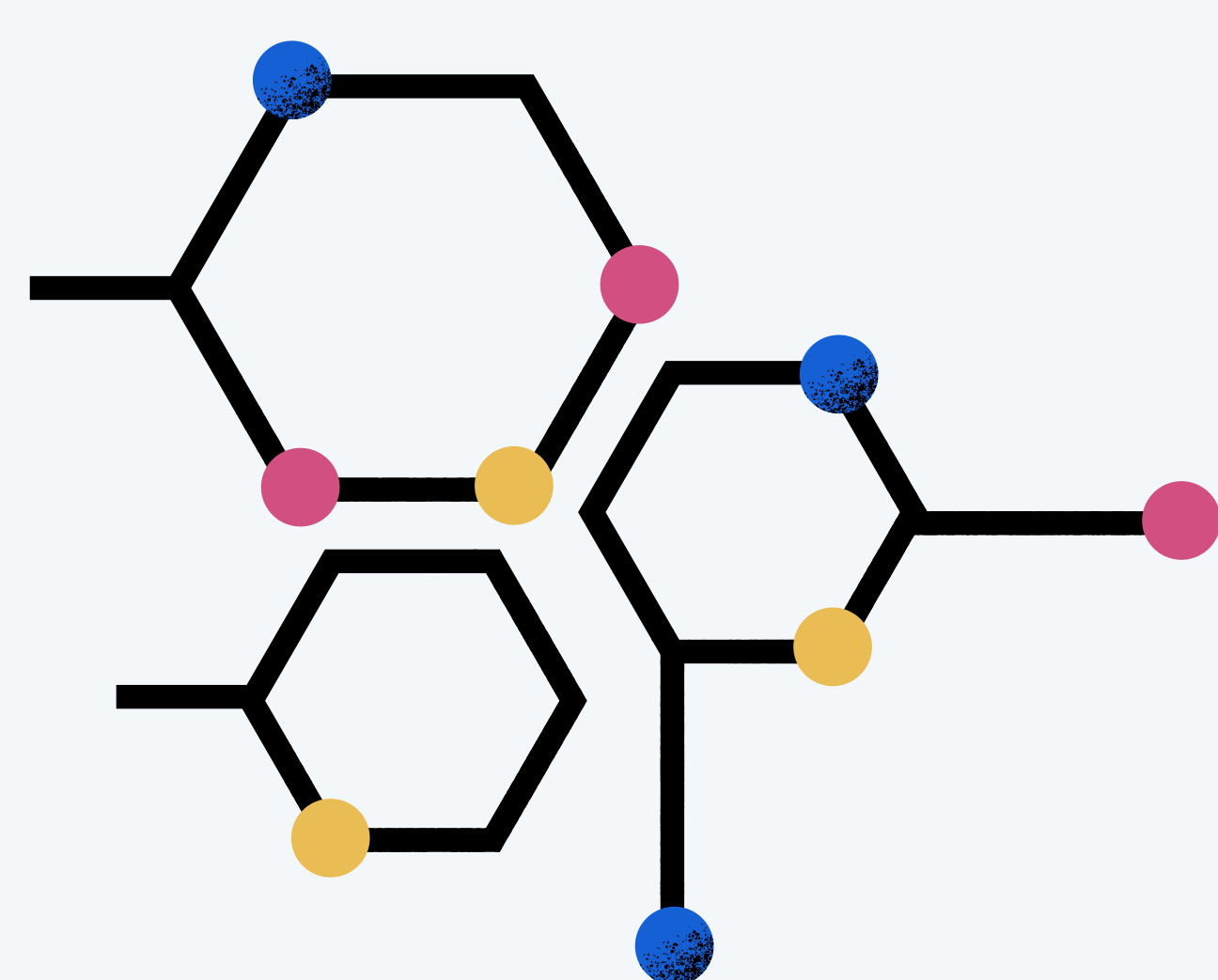
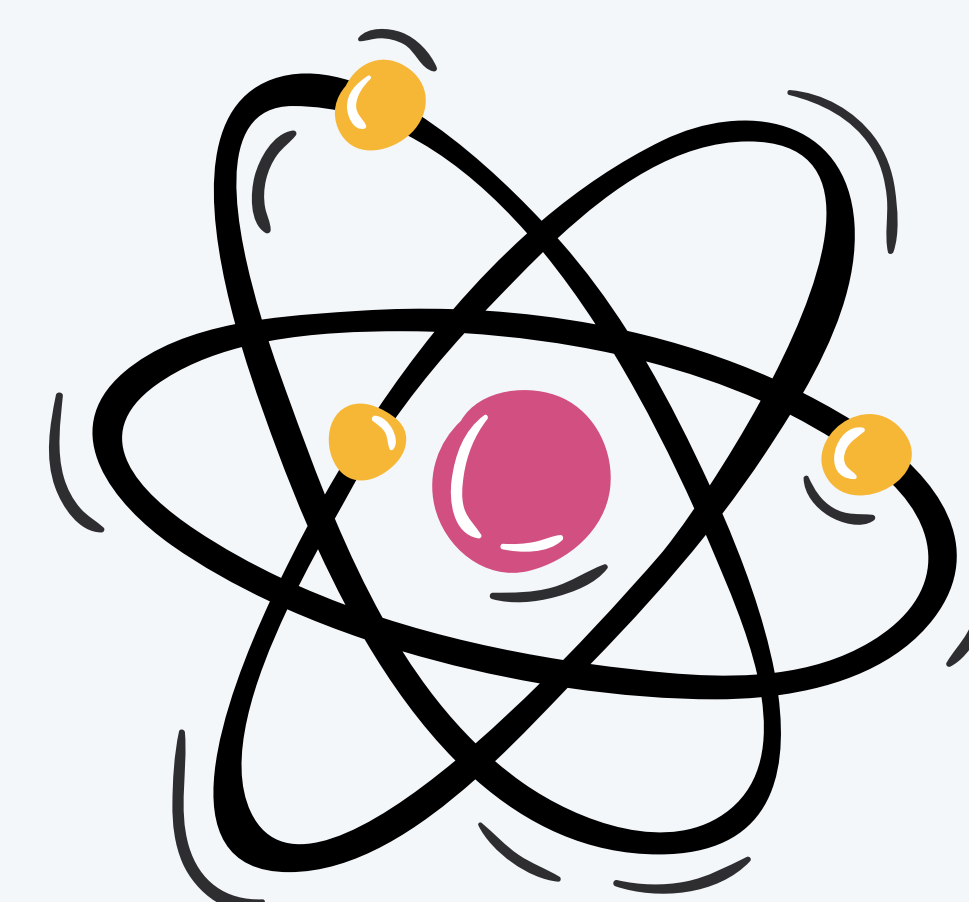
## FUN FOR THE WHOLE FAMILY

Embracing the power of STEAM nurtures creativity, inspires lifelong learning, and equips children with the skills needed to thrive in the 21st century.

### PLANT GROWTH EXPERIMENT:

- Set up an experiment to investigate the factors affecting plant growth, such as soil type, light exposure, and water availability. Discuss the role of plants in the carbon cycle and their importance for Earth's ecosystems.

<https://kidsgardening.org/resources/garden-activities-kitchen-scrap-gardening/>



### MAKE A SOLAR OVEN

- Build your own solar oven using recycled boxes, black tape, aluminum foil, newspaper, pipe cleaners, and glass from a frame. Test its effectiveness by making smores!

<https://youtu.be/sYM0NwuqgcM?si=gmbY1NSFG1-zbMBf>

### DIY A WATER FILTRATION SYSTEM :

- Create a model of a water filtration system using materials like sand, gravel, and activated charcoal. Demonstrate how it purifies water and discuss the importance for clean water worldwide.
- <https://kids.nationalgeographic.com/books/article/water-wonders>
- <https://worldslargestlesson.globalgoals.org/resource/clean-water-for-all/>



### AIR QUALITY DATA

- Set up an air quality monitoring station using simple sensors. Measure air pollutants and discuss sources and effects on human health and the environment.
- Follow these simple instructions to set-up and monitor the indoor and outdoor air quality:
- Cut 2 three inch (7.6 cm) squares from the white card stock. Punch a hole in the top of each square. Run a string through each hole.
- Cover one side of each paper square with petroleum jelly/coconut oil.
- Take a "before" picture of each paper square. Hang one square inside, and the other square outside, for 5 days.
- After 5 days, take an "after" picture of each square. Compare both squares using a magnifying glass to estimate the total number of particles present.
- [https://weather.gc.ca/airquality/pages/index\\_e.html](https://weather.gc.ca/airquality/pages/index_e.html)



### RECYCLED ART PROJECT

- Collect recyclable materials and use them to create artwork that highlights environmental themes.
- <https://youtu.be/HkHEJEzMKwc>

