

# Earth and Space Science Workshops

## in Elementary School Classrooms

### Pricing, scheduling, format

\$5/student for 1-1½ hr lesson (including materials)

Workshops can be run before recess and/or after recess and/or afternoon

No more than two different workshop topics can be run in one day

The teacher must be present in the classroom during the workshop

All workshops can be adapted for any K-7 grade level



### Earth and Space Science Workshops (or mix and match activities)

Topic	Activity details
The Moon	Model phases of the Moon (NOTE: need a classroom/area that can be made dark). Make craters in flour and learn how crater features reveal moon/planet composition.
Exploring the Solar System	Choose two: Set off a small rocket and use molecule models to understand rocket chemistry. Model gravity assist (uses planets' gravity to send probes into space). Construct a Solar System Scale model (NOTE: will be outdoors for half an hour).
Learning from Starlight	Make a spectroscope to view light sources, then the sun. Learn how astronomers use starlight to understand the lives of stars and the expansion of our universe.
Weather Phenomena and Measuring Weather	Recreate lightning, frost, rainbows or sunsets (choose); measure temperature. Design the mechanism of an anemometer (wind spinner) or tipping spoon rain gauge.
Water and Interconnectedness	Set up a small-scale water cycle (shows evaporation, condensation, precipitation). Model the origins of ocean currents and weather systems using coloured water. Optional: link Water to living things and the land with additional hands-on activities.
Erosion, Landforms and Rock Cycle	Choose two: Use trays of sand and water to observe erosion and landform formation. Model sedimentary rock formation and uplifting. Mineral testing and identification.
Other Earth/Space topics can be developed into workshops. Please contact /see <a href="http://www.ingridscience.ca">www.ingridscience.ca</a> for ideas	

### Instructor



Ingrid Sulston, PhD, has 24 years of experience teaching hands-on science in schools, science centres and botanical gardens in Vancouver, New York City and San Francisco. The past eight years Ingrid has primarily worked in Elementary school classrooms in Vancouver, as a consultant and as a Scientist in the Vancouver School Board's Scientist in Residence Program.



[ingridscience.ca](http://ingridscience.ca)

[ingridscience@gmail.com](mailto:ingridscience@gmail.com)