



SCIENTIST IN RESIDENCE PROGRAM

Managing Director: Dr. Paige Axelrod, Scientist and Consultant (paxelrod@scientistinresidence.ca)

Director: Dr. Valerie Overgaard, Associate Superintendent, Learning Services,
Vancouver Board of Education (vovergaard@vsb.bc.ca)

Program Summary

The Scientist in Residence Program's mission is to excite, inspire and support elementary school children and teachers to discover the world through hands-on science.

The Scientist in Residence Program is a school-based experience in which scientists form partnerships with teachers to co-create and co-deliver inquiry-based science programs for students in elementary schools. This program strives to get children hooked on science at a young age and is offered for grades K – 7. Each scientist in residence is partnered with a team of two teachers at one school. The program is flexible to meet the individual needs of each teacher. Through team-teaching opportunities, and exposure to scientific concepts and hands-on activities, teachers build on their knowledge while supporting active science learning in the classroom. The scientist in residence and teachers plan and develop six hands-on science lessons in the fall, the lessons are co-delivered to students in the winter or early spring, and lesson documentation is completed in the spring. The lessons support the BC Ministry of Education Integrated Resource Package (IRP) Guidelines for Science. One field trip may be integrated into a science lesson. This program is intended to enhance the science learning experience of students through hands-on activities and experiments, and to inform teachers about the teaching of inquiry-based science through the insight and skills provided by the scientist. Opportunities for students to learn scientific methods, design and conduct experiments, record and analyze data, and present results of experiments are central to the program. Teachers and the scientist work together to document lesson plans developed during the program. These lesson plans are available from the program's web site for use by teachers, future scientists in residence, and the public thereby creating a legacy. Teachers and scientists participate in program evaluation.

Program Goals

Students are supported to:

- Develop positive attitudes about science
- Develop exploration and inquiry skills
- Enhance their knowledge of science
- Engage in science and have fun

Teachers are supported to:

- Form a partnership with a scientist and another teacher to collaboratively develop and implement hands-on science experiences for students
- Increase their knowledge of science methods and content
- Enhance their comfort and abilities to teach science

Scientist in Residence Program website: <http://www.scientistinresidence.ca>