

Celebrate Science in the Rockies!

2020 Science Fair Student Registration Package

Sponsored by the Rotary Club of Canmore



CHOOSE YOUR “OWN” TOPIC IN SCIENCE!

INVENT SOMETHING NEW AND EXCITING! MAKE A UNIQUE DISCOVERY!

WIN CASH PRIZES

Dear Student,

Here is your chance to think “out of the box” and develop higher-order thinking skills!

The Twelfth annual Canadian Rockies Regional Science Fair will be held Tuesday, March 31st, 2020 in the Banff Elementary School gymnasium, in BANFF. Students who attend school in the Bow Valley and are enrolled in grades 4-12 are invited to compete. This is an exciting opportunity in the Bow Valley for students to explore and discuss science in a different light...outside of the classroom!

Please read the enclosed package and complete forms by noon, Friday, December 20th, 2019. Please mail all registration forms via inter-school mail to:

Natalie Major: Banff Elementary School Banff, AB

THE CANADIAN ROCKIES 13th ANNUAL

2019-20 REGISTRATION BOOKLET

REGIONAL SCIENCE FAIR!

REGISTRATION

A completed registration form and a \$20 cheque written to: The Canadian Rockies Science Fair Society must accompany each project (If 2 people are part of a project that means 1 cheque). Confirmation of registration will occur through the student's teacher and/or Miss Major via email. This cheque will be returned upon attendance at the fair on Tues. Mar. 31st, 2020. Any participants who don't show up "will not" receive a refund. Any questions may be emailed directed to Natalie Major (natalie.major@crps.ca).

DEADLINES

- The deadline for entering the Fair is 12:00pm (noon), Friday, December 20, 2019.
- Entries will only be accepted if the official registration form and a \$20 cheque is received and completed in full.
- NO ENTRIES WILL BE ACCEPTED BY TELEPHONE OR EMAIL.

CATEGORIES (PLEASE NOTE THESE CATEGORIES MAY CHANGE ACCORDING TO NUMBER OF PARTICIPANTS)

ELEMENTARY (Grades 4, 5)

- A project may either be an Experiment, a Study or an Innovation.
- Projects are categorized as Biological Science (Plants), Health and Life Science (Humans and Animals), Environmental Science (Rocks and the Environment), Space Science (anything involving space), Engineering Science (Physics, Math and Computers), Psychological and Social Science (anything involving learning or behaviour), Chemical Sciences (Chemical Reactions).
- Prizes will be awarded for first, second, and third place.
- Special prizes will also be awarded and will be dependant upon sponsorship.
- Due to the age restrictions at the National level, students in this category will not proceed on to the Canada Wide Science Fair (CWSF).
- **Students may work on their projects either individually or in pairs. No groups of three or more will be accepted.**

JUNIOR (Grades 6 and 7)

- A project may either be an Experiment, a Study, or an Innovation.
- Projects are categorized as Biological Science (Plants), Health and Life Science (Humans and Animals), Environmental Science (Rocks and the Environment), Space Science (anything involving space), Engineering Science (Physics, Math and Computers), Psychological and Social Science (anything involving learning or behaviour), Chemical Sciences (Chemical Reactions).
- Prizes will be awarded for first, second, and third place.
- Special awards may be presented depending on sponsorship.
- **Students may work on their projects either individually or in pairs. No groups of three or more will be accepted.**

SENIOR (GRADES 8, 9 and High School)

- A project may either be an Experiment, a Study, or an Innovation.
- Projects are categorized as Biological Science (Plants), Health and Life Science (Humans and Animals), Environmental Science (Rocks and the Environment), Space Science (anything involving space), Engineering Science (Physics, Math and Computers), Psychological and Social Science (anything involving learning or behaviour), Chemical Sciences (Chemical Reactions).
- Prizes will be awarded for first, second, and third place.
- Special prizes will be awarded depending on sponsorship.
- **Students may work on their projects either individually or in pairs. No groups of three or more will be accepted.**

REGULATIONS

1. All quantified observations must be recorded in metric measurements (SI units).
2. VERTEBRATE ANIMALS MAY NOT BE USED (such as birds, fish, mammals, reptiles, amphibians) in experiments for the Science Fair if they may in any way affect the health, comfort, or physical integrity of the animals. Observation of wild animals, animals in zoological parks, farm animals and pets is permitted. NO LIVING VERTEBRATE ANIMAL SHALL BE DISPLAYED IN PROJECTS AT THE SCIENCE FAIR! Lower orders of life (bacteria, fungi, protozoa, insects, plants and invertebrate animals) can be used in experimentation to reveal valuable biological information relevant to the higher orders. These life forms are not to be included in the project display and should be replaced by appropriate photographs.
3. Projects using chemicals which are listed as restricted or prohibited in the list of hazardous chemicals released by Alberta Education will not be accepted for entry.

4. Electrical switches and cords operating at 110 Volts A.C. must be CSA Approved. Extension cords are NOT provided. (IF YOU NEED ELECTRICITY, PLEASE BRING YOUR OWN 5 METER (minimum) EXTENSION CORD).

5. Radio-isotopes, biological toxins, cells or tissues infected with animal viruses and BLOOD will NOT be allowed. ALL other cultures exhibited should be sealed air tight.

6. Experiments that require human participation need to have the subject's written permission.

**NO experiments involving ingestion of energy drinks are permitted.

7. Experimental manipulations of recombinant DNA molecules or of animal **viruses are prohibited.**

8. Lasers may NOT be operated during viewing period.

9. Open flames are NOT allowed.

10. All cell phones, ipods, radios, CD players, TV's and other devices which may disrupt judging of projects must be turned off during the competition.

11. All projects must be safe in design and operation. The CRRSF will not allow any project that is a threat to the safety of others.

12. The Canadian Rockies Regional Science Fair does not assume responsibility for the loss or damage to projects or personal property.

13. Each exhibitor participating in the CRRSF will set up and remove his/her exhibit during the respective times allowed on the Schedule of Events. If there is any safety regulation in question, the student(s) will be asked to correct or remove the component in question. No items can be removed from the display until Miss Major or Mrs Daffern has indicated. This may be after the closing of the fair, or after the awards ceremony.

14. All exhibits, including all accessories, must be confined to a table or floor space not to exceed 0.8 m front to back, 1.2 m side to side, and 3.6 m maximum height from the floor. All measurements will be made from the outermost points including framework and appendages and will be checked by the Science Fair Logistics Committee. Special permission must be obtained for oversized exhibits. Exhibits not receiving this prior approval may be disqualified.

15. The exhibitor must supply all equipment.

16. Construction of exhibits must be sturdy, moving parts firmly attached and approved for safety. Each exhibit must be self-supporting. No gas, water or phone outlets will be provided.

17. Exhibitors are responsible for their behaviour at the CRRSF. A participant must be at his/her display at all times during the exhibition hours. All interaction with other participants and the public should be courteous. All participants must leave the exhibit area during the lunch break. NO Food is provided by the CRRSF.

18. A logbook must accompany all projects. This is to include all results and observations, rough work etc. A logbook should summarize the project and be a diary of observations. It should be included as part of the student's presentations.

SCHEDULE OF EVENTS

Friday, December 20th, 2019 - 12:00 pm (noon): Registration Deadline

Tuesday, March 31st, 2020 - 8:30 am: Judge Information Session (BES gym)

Students will be bussed from schools to BES. Attendance will take place on the bus

9:00-9:15 am Project set-up (BES Gym)

9:15-11:15 am Exhibit Judging (No parent viewing)

11:15-11:45 am Public/School Viewing (Projects will be dismantled and tables loaded onto truck prior to lunch)

12:00-1:15 pm Lunch for Participants (not provided)

1:30- 2:20 pm Awards Ceremony (BES gym)

2:20 pm Dismissal for Canmore/Exshaw students: bus home

13th Annual Canadian Rockies Regional Science Fair Student Registration Form

Each student must complete his/her own permission form!

***If students are partnered up in pairs, each partner must separately complete this form and have his/her parent signature included. A \$20 cheque made out to Canadian Rockies Regional Science Fair Society, must accompany each project. (\$20 per project!) If the student does not show up on Tues. Mar. 31st, 2020 to present his/her project, this cheque will not be returned. If students are present, the cheque will be returned. The cheque covers the cost of the project board and provides insurance that the students will actually attend the Science Fair. Project boards will be delivered to the student's school within 4 weeks of receipt of registration.**

1. Participant Name: (Include first and last names): _____

2. Partner's Name: (Include first and last names if in pairs):

3. Participant's Phone Number: _____

4. Participant's Email address: _____

5. a) Parent's Email address _____

b) Participant's email address (if not the same as Parent's) _____

6. Project Title or Subject (brief description of your project): _____

7. Participant's Grade and Teacher Name: _____

9. Participant's School Name: _____

10. Which scientific category would your project be categorized as: **(Please Circle)**

-Biological Sciences (Projects involving plants) -Health and Life Sciences (Projects involving human or animal health studies i.e. Cancer, genetics) -Chemical Sciences (Projects involving chemical reactions) -Engineering Sciences (Projects involving changes of state, examining physical concepts, mathematical computations, or computers) -Environmental Science (Geological and Earth Sciences) (Projects involving environmental studies i.e. Greenhouse gases, rocks, shifting of continents etc.) -Sociological and Physiological Sciences (Studies and experiments involving learning, socializing, thinking etc.) -Space Science (Projects involving astrological studies, space concepts)

11. Will your project need an electrical outlet? Yes/ No (Please Circle)

Parent permission: I (Please Print Name) _____ give my permission for (Please Print Student's Name) _____ to participate in the thirteenth annual Canadian Rockies Science Fair at Banff Elementary School.

I do/don't (Please Circle) give permission to publish his/her name and/or photograph in any media and in the Canadian Rockies Science Fair Slide Show in the event that he/she wins an award.

Parent/ Guardian Signature: _____

Date: _____

Mail to: Canadian Rockies Regional Science Fair, Natalie Major: Banff Elementary School