

March 22, 2022

Dear Principal:

Please forward the following information and materials to your upper year high school physics and physical science teacher(s).

I would like to take this opportunity to alert you to **TWO** physics competitions that may be of interest to your students.

1. The Canadian Association of Physicists is sponsoring the annual physics prize competition as outlined in the enclosed attachments. The date for the competition is **Wednesday, April 6, 2022**. Again this year the exam is common to all provinces in Canada. There are prizes awarded within each province and in addition there will be national prizes awarded.
2. The Department of Physics and Engineering Physics at the University of Saskatchewan is once again sponsoring the province wide UofS High School Physics competition. The details of the competition are outlined in the enclosed announcement and will closely follow the Saskatchewan High School Curriculum. The date for the competition is **Thursday, May 5, 2022**.

An announcement poster and additional information is attached.

We are asking each school to make their own arrangements regarding the place for writing the competition(s). We will email the competition papers directly to the schools that wish to participate.

- Requests for the 2022 CAP High School Prize Examination **should be received on or before March 31, 2022**
- Requests for the 2022 U of S High School Physics Competition **should be received on or before April 25, 2022**

Thank you for your assistance in this project. It is our sincere hope that many of your students will take advantage of either, or both, of these opportunities. Please contact us about any matters relating to the competitions.

Yours sincerely

Dr. Mark Boland
Provincial Coordinator of the CAP High School Prize Examination
Coordinator of the UofS High School Physics Competition

MB/mg
Encls.



UNIVERSITY OF
SASKATCHEWAN

DEPARTMENT OF PHYSICS AND ENGINEERING PHYSICS

2022
University of Saskatchewan
High School Physics
Competition



A 1.5 hour multiple choice exam based on the *Saskatchewan High School Physics Curriculum*.

Exam Day: Thursday, May 5, 2022.

Prizes: First \$250, Second \$150, Third \$100 Awarded when the winning student enrolls in a first-year Physics, Engineering Physics or Astronomy class at the University of Saskatchewan



2022
Canadian Association of Physicists
High School Prize Examination

A 3 hour examination with a combination of multiple choice and long answer problems.

Exam Day: Wednesday, April 6, 2022.

Prizes: National awards: First \$500, Second \$300, Third \$200.

For more information visit: <https://research-groups.usask.ca/physics-high-school-outreach/>

2022 U of S High School Physics Competition

This is to announce the upcoming annual University of Saskatchewan (UofS) High School Physics Competition for senior high school physics students. **The exam is to be held on the morning of Thursday, May 5, 2022.** Prizes are scholarships that will be paid to students who enroll in any University of Saskatchewan first year Physics, Engineering Physics or Astronomy course.

The Physics Competition has been created by professors and examiners at the University of Saskatchewan and will follow the Saskatchewan High School Physics Curriculum. We expect that this competition will be significantly more accessible to Saskatchewan High School Physics Students. While your very best students will want to try for the CAP Prize exam we feel that many more of your students will find this UofS High School Physics Competition enjoyable. All papers will be in English. Copies of old exam papers are available on our Department of Physics and Engineering Physics web site (<https://research-groups.usask.ca/physics-high-school-outreach/>).

The Exam paper will be one and a half hours long and will contain about 30 multiple-choice questions. All papers will be graded and there will be scholarships of \$250 for first, \$150 for second, and \$100 for third. Winners will be notified in late May or early June.

We are requesting that each school make its own arrangements regarding the place for writing the exam and any number of students may sit the exam. Please return the examination request form, by email, to request an appropriate number of examination papers (examination request forms are attached) by e-mail to marj.granrude@usask.ca. We do not need to know the names of the students at this time. Requests should be received by April 25, 2022. Exam materials will be mailed to reach you at least one week before the exam date.

If you would like more information please contact Dr. Mark Boland at mark.boland@usask.ca or the departmental secretary at marj.granrude@usask.ca.

Yours Sincerely,

Dr. Mark Boland
Provincial Coordinator for the UofS High School Physics Competition

2022 U of S High School Physics Competition

Request for Examination Papers

Exam day: Wednesday May 5, 2022

This form should be emailed by **April 25, 2022** to the departmental secretary marj.granrude@usask.ca (e-mail requests will be acknowledged by e-mail.)

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|--|-------------------------|
| High School: | |
| School District: | Principal: |
| Examiner to whom papers should be sent: | |
| Name: | Telephone No.: |
| Address: | Fax No. (if available): |
| City: | E-mail: |
| Postal Code: | |

Please send me _____ exams.

EXAMS WILL BE EMAILED TO THE EXAMINER

Examiner's Signature: _____ Date: _____

2022 CAP High School Prize Examination

Announcing the upcoming annual Canadian Association of Physicists (CAP) High School Prize Examination for senior high school physics students. The exam is to be held on the morning of **Wednesday April 6, 2022**.

The CAP is an association of physicists from universities, government laboratories and industry. One of its aims is “to promote knowledge in the physical sciences and the dissemination of information relating thereto in and between all sections and regions of Canada.” This Prize Exam is organized to help in this aim.

The prize examination is created by a national committee. Students from across the country will write the same examination. The CAP High School Exam is based upon an internationally recognized syllabus, the I.B. Physics Higher Core Curriculum. Only sections of the syllabus covering mechanics, Optics and Electricity and Magnetism are examined by the CAP Exam. Since all provinces in Canada have different curricula and the level of physics taught varies widely, the exam uses a broad based core curriculum which is widely recognized and used throughout the world. Copies of old exam papers are also available on our Department of Physics and Engineering Physics web site (<https://research-groups.usask.ca/physics-high-school-outreach/>). More information is available on the CAP web site at <https://www.cap.ca/programs/medals-and-awards/prizes-students/cegep-prize-exam/cap-high-school-cegep-prize-exam/>. There is also a link there to copies of old exams. It should be noted that *this examination is intentionally set at a high standard*. It is intended for only the very best students in each school. There are other physics competitions that may be more suitable for the general population of physics students, one of which may be the University of Saskatchewan High School Physics Competition (information attached).

The Exam paper will be three hours long and will contain 25 multiple choice questions and three long answer questions. All papers will be looked at provincially and the ten best papers, including all those with scores on the multiple choice section above a set cut-off, will be sent to the CAP for final grading by a national committee. As well as the Provincial Prizes for first, second and third, there will be National Prizes of \$500 for first, \$300 for second and \$200 for third. Winners will be notified in May.

We are requesting that each school make its own arrangements regarding the place for writing the exam. Any number of students may sit the exam, but we recommend that teacher discretion be used, as the exam is meant to stretch even the most capable students. Please return the examination request form by email to marj.granrude@usask.ca to request the appropriate number of examination papers (*examination request form attached*). Papers will be available in French or English. Requests should be received by **March 31, 2022**. Exam materials will be emailed to you at least one week before the exam date.

If you would like more information please contact Dr. Mark Boland at mark.boland@usask.ca or the departmental secretary at marj.granrude@usask.ca.

Yours Sincerely,

Dr. Mark Boland
Provincial Coordinator for the CAP High School Prize Examination

2022 CAP High School Prize Examination

Request for Examination Papers

Exam date: Wednesday, April 6, 2022

This form should be emailed by **March 31, 2022** to the departmental secretary marj.granrude@usask.ca (e-mail requests will be acknowledged by e-mail.)

| | |
|--|-------------------------|
| High School: | |
| School District: | Principal: |
| Examiner to whom papers should be sent: | |
| Name: | Telephone No.: |
| Address: | Fax No. (if available): |
| City: | E-mail: |
| Postal Code: | |

Please send me _____ exams in English. Please send me _____ exams in French.

EXAMS WILL BE EMAILED TO THE EXAMINER

Examiner's Signature: _____ Date: _____