General Rules

Revised by the Science Olympiad Rules Committee Chairs and Executive Board, July 2014 (note changes in bold)

The goal of competition is to give one’s best effort while displaying honesty, integrity, and good sportsmanship. Everyone is expected to display courtesy and respect (see Science Olympiad Pledges below). Teams are expected to make an honest effort to follow the rules and the spirit of the problem (not interpret the rules so they have an unfair advantage). Failure by a participant, coach, or guest to abide by these codes, accepted safety procedures, or rules below, may result in an assessment of penalty points or, in rare cases, disqualification by the tournament director from the event, the tournament, or future tournaments.

1. Actions and items (e.g., tools, notes, resources, supplies, electronics, etc.) are permitted, unless they are explicitly excluded in the rules, are unsafe, or violate the spirit of the problem.

2. While competing in an event, students may not leave without the event supervisor’s approval and must not receive any external assistance. All electronic devices capable of external communication (including cell phones) must be turned off, unless expressly permitted in the event rule and left in a designated spot if requested.

3. Students, coaches and other adults are responsible for ensuring that any applicable school or Science Olympiad policy, law or regulation is not broken. All Science Olympiad content (e.g., policies, requirements, clarifications, FAQs, etc. on soinc.org) must be treated as if it were included in the printed rules.

4. All pre-built devices presented for judging must be constructed, impounded, and operated by one or more of the 15 current team members unless stated otherwise in the rules. If a device has been removed from the event area, appeals related to that device will not be considered.

5. Officials are encouraged to apply the least restrictive penalty for rules infractions. Event supervisors must provide prompt notification of any penalty, disqualification or tier ranking.

6. State and regional tournament directors must notify teams of any site-dependent rule or other rule modification with as much notice as possible, ideally at least 30 days prior to the tournament.

Any problems or questions about rules and procedures must be submitted to Charles Sawicki by phone at 701-388-6956.
The NDSU College of Science and Mathematics and the Center for Science and Mathematics Education would like to offer a special thank you to these organizations for supporting K-12 science, math, and engineering events like the State Science Olympiad.

NDSU - College of Science and Mathematics

Taco Shop

NDSU Army ROTC

Cambria Hotels & Suites
North Dakota Science Olympiad Program

April 18, 2015

Registration                                7:30 - 8:00

Opening Ceremonies                          8:00 - 8:30
  Posting of the Colors: NDSU Army ROTC
  National Anthem: Warren Christensen
  Opening Remarks: Scott Wood
  Dean - College of Science and Mathematics
  Announcements: Warren Christensen
  Assistant Professor - Physics

Science Olympiad Events                     8:45 - 3:05

Lunch – Memorial Union                      11:30 – 1:30
  Hoagie Hutt (basement)                     11:30 – 1:30
  Pizza Express (basement)                   11:30 – 1:30
  Burgers @ the U (basement)                 11:30 – 1:30
  Union Coffee Cart (first floor)            9:00 – 2:00

Free Time for Teams                        3:05 - 3:30

Awards Ceremony                             3:45 - 5:00
  Individual and Team Awards
  Class B Trophies
  Class A Trophies
  Overall Division Trophies

ScienceOlympiad

Exploring the World of Science
## 2015 Science Olympiad (FINAL)

<table>
<thead>
<tr>
<th>Event</th>
<th>Div</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Trajectory</td>
<td>B &amp; C</td>
<td>7:30-8:00</td>
<td>Impound</td>
</tr>
<tr>
<td>Anatomy and Physiology</td>
<td>B &amp; C</td>
<td>8:45-9:40</td>
<td>Minard 112</td>
</tr>
<tr>
<td>Astronomy</td>
<td>C</td>
<td>9:50-10:45</td>
<td>Stevens 107</td>
</tr>
<tr>
<td>Bio-Process Lab</td>
<td>B</td>
<td>10:55-11:50</td>
<td>FLC 410</td>
</tr>
<tr>
<td>Bottle Rocket</td>
<td>B</td>
<td>12:00-12:55</td>
<td>SPF</td>
</tr>
<tr>
<td>Bridge Building</td>
<td>B &amp; C</td>
<td>Walk In</td>
<td>FLC 313</td>
</tr>
<tr>
<td>Bungee Drop</td>
<td>C</td>
<td>1:05-2:00</td>
<td>Minard Balcony</td>
</tr>
<tr>
<td>Can’t Judge a Powder</td>
<td>B</td>
<td>2:10-3:05</td>
<td>Ladd 307</td>
</tr>
<tr>
<td>Cell Biology</td>
<td>C</td>
<td>3:05-4:00</td>
<td>BBF 203</td>
</tr>
<tr>
<td>Chem Lab</td>
<td>C</td>
<td>4:05-5:00</td>
<td>Ladd 304</td>
</tr>
<tr>
<td>Compund Machines</td>
<td>C</td>
<td>5:05-6:00</td>
<td>CIE 205/207</td>
</tr>
<tr>
<td>Crave The Wave</td>
<td>B</td>
<td>6:05-7:00</td>
<td>SE 120</td>
</tr>
<tr>
<td>Crime Busters</td>
<td>B</td>
<td>7:05-8:00</td>
<td>SE 120</td>
</tr>
<tr>
<td>Disease Detectives</td>
<td>B &amp; C</td>
<td>8:05-9:00</td>
<td>Sudro 22</td>
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<tr>
<td>Dynamic Planet</td>
<td>B &amp; C</td>
<td>9:05-10:00</td>
<td>Stevens 230</td>
</tr>
<tr>
<td>Elastic Launched Glider</td>
<td>B</td>
<td>10:05-11:00</td>
<td>BBF Gym</td>
</tr>
<tr>
<td>Entomology</td>
<td>B &amp; C</td>
<td>11:05-12:00</td>
<td>Hultz 209</td>
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<tr>
<td>Experimental Design (B)</td>
<td>B</td>
<td>12:05-1:00</td>
<td>Stevens 210</td>
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<tr>
<td>Experimental Design (C)</td>
<td>C</td>
<td>1:05-2:00</td>
<td>Dolve 202</td>
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<tr>
<td>Forensics</td>
<td>C</td>
<td>2:05-3:00</td>
<td>Ladd 309</td>
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<tr>
<td>Fossils</td>
<td>B &amp; C</td>
<td>3:05-4:00</td>
<td>Stevens 136</td>
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<tr>
<td>Game On</td>
<td>C</td>
<td>4:05-5:00</td>
<td>QBB 244</td>
</tr>
<tr>
<td>GeoLogic Mapping</td>
<td>C</td>
<td>5:05-6:00</td>
<td>Stevens 231</td>
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<tr>
<td>Green Generation</td>
<td>B &amp; C</td>
<td>6:05-7:00</td>
<td>Stevens 329</td>
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<td>It’s About Time</td>
<td>C</td>
<td>7:05-8:00</td>
<td>SE 308/314/316</td>
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<tr>
<td>Meteorology</td>
<td>B</td>
<td>8:05-9:00</td>
<td>Walser 220</td>
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<tr>
<td>Mission Possible</td>
<td>C</td>
<td>9:05-10:00</td>
<td>Dolve 117</td>
</tr>
<tr>
<td>Picture This</td>
<td>B</td>
<td>10:05-11:00</td>
<td>Dolve 204</td>
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<tr>
<td>Protein Modeling</td>
<td>C</td>
<td>11:05-12:00</td>
<td>QBB 244</td>
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<tr>
<td>Road Scholar</td>
<td>B</td>
<td>12:05-1:00</td>
<td>Stevens 134</td>
</tr>
<tr>
<td>Robo-Cross</td>
<td>B</td>
<td>1:05-2:00</td>
<td>Dolve 215</td>
</tr>
<tr>
<td>Scrambler</td>
<td>C</td>
<td>2:05-3:00</td>
<td>Loftsgard 104</td>
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<tr>
<td>Simple Machines</td>
<td>B</td>
<td>3:05-4:00</td>
<td>Dolve 115/118</td>
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<tr>
<td>Solar System</td>
<td>B</td>
<td>4:05-5:00</td>
<td>FLC 410</td>
</tr>
<tr>
<td>Technical Problem Solving</td>
<td>C</td>
<td>5:05-6:00</td>
<td>Morril 109</td>
</tr>
<tr>
<td>Wheeled Vehicle</td>
<td>B</td>
<td>6:05-7:00</td>
<td>BBF Gym</td>
</tr>
<tr>
<td>Wright Stuff</td>
<td>C</td>
<td>7:05-8:00</td>
<td>BBF Gym</td>
</tr>
<tr>
<td>Write It Do It</td>
<td>B &amp; C</td>
<td>8:05-9:00</td>
<td>ECE 123/125</td>
</tr>
</tbody>
</table>

### Building Notes

- **FLC** = Katherine Kilbourne Burgum Family Life, 4-H Center
- **ABEN** = Agricultural and Biosystems Engineering Building
- **SPF** = Soccer Practice Field
- **CIE** = Civil and Industrial Engineering Building
- **ECE** = Electrical and Computer Engineering Building
- **BBF** = Bentson Bunker Fieldhouse
- **QBB** = Quentin Burdick Building (formerly IACC)
- **SE** = South Engineering
CAMPUS MAP
NORTH DAKOTA STATE UNIVERSITY

N2  1  AES Greenhouse
S9  2  Agricultural and Biosystems Engineering
S13  3  Alba Bales House (Equity and Diversity Center)
T13  40  Alumni Center (McGovern Alumni Center)
K2  4  Animal Nutrition and Physiology Center
Q11  5  Architecture and Landscape Architecture
V9  6  Askanase Hall (Theatre NDSU)
U6  7  Auxiliary Enterprises (University Police, Safety Office)

D1  Barry, Richard H., Hall (811 2nd Ave N) (Business, Agribusiness and Applied Economics, Center for Global Initiatives, ND Trade Office, NDSU Bookstore)*/
E3  8  Batcheller Technology Center
P12  9  Bentons/Bunker Fieldhouse (Athletics, HINES, ROTC)
I8  10  Biosciences Research Laboratory
V9  11  Bison Block I
T13  12  Ceres Hall (Admission, Career Center, Cooperative Education, Counseling, Customer Account Services, Registration and Records, Student Financial Services, TRIO Programs)
P10  13  Civil and Industrial Engineering
P10  14  Construction Management Engineering
W10  15  Credit Union (Northland Educators)
W5  16  Criminal Justice and Public Policy
I11  17  Dacotah Field
P11  18  Dolve Hall (Mechanical Engineering)
R9  19  Dunbar Laboratories (Chemistry)
R11  20  E. Morrow Lebedeff Hall (Human Development and Education)
Q11  21  Ely Hall
Q10  22  Electrical and Computer Engineering
Q10  23  Engineering Center

Equine Center (3 miles west of campus on 19th Ave N)

E14  65  SGC Building (Distance and Continuing Education, Human Resources/Payroll, Family Studies Institute)

J10  66  Shelly Elig Indoor Track and Field Facility
T8  69  STEM Classroom and Lab Building
Q7  70  Stevens Hall (Natural Sciences)
W14  71  St. Paul’s Chapel (Newman Center)
O9  72  Sudro Hall (Pharmacy, Nursing, Allied Sciences)

N2  73  Sugar Beet Research
D1  74  Technology Incubator
V8  75  Thordarson Hall (Center for Distance Education)
R7  76  Thorson Maintenance Center (Facilities Management, Telecommunications, Emergency Support Technologies)
Q6  77  Van Es Hall (Microbiological Sciences, Vet Science)
P7  78  Waldron Hall (Agriculture, Soil Testing Lab, Statistics)
Q4  79  Wallman Wellness Center (Campus Recreation/Intramural, Disability Services, Student Health Service)
O8  80  Walster Hall (Agriculture)

West Building (3551 7th Ave N) (Health Sciences Library, NDSU Archives, Center for Heritage Renewal)

M8  81  West Dining Center (Student Success Programs, ACE Tutoring)
P7  82  Wilaekas Laboratory (Corn Seed House, Plant Sciences)

Housing Units

M12  83  Bison Court
V12  84  Burgum Hall
R12  85  Churchill Hall
S11  86  Dinan Hall
N4  87  Mathew Living Learning Centers
D15  88  Niskanen Expansion
E14  89  Niskanen Hall
N7  90  Pavek Hall
M10  91  Reed-Johnson Halls
M7  92  Seim Hall
M8  93  Sevrinson Hall
N13  94  Stockbridge Hall
N8  95  Thompson Hall
F15  96  University Village
N10  97  Weible Halls (North and South)

Fraternity and Sorority Houses

T15  98  Alpha Gamma Delta
R13  99  Alpha Gamma Rho
V15  100  Alpha Tau Omega
S14  101  Delta Upsilon
V12  102  FarmHouse
S14  103  Kappa Alpha Theta
S14  104  Kappa Delta
Q14  105  Kappa Psi Pharmaceutical Fraternity
W6  106  Sigma Alpha Epsilon
T14  107  Sigma Chi
V15  108  Sigma Nu
V11  109  Sigma Phi Delta
W11  110  Tau Kappa Epsilon
R13  111  Theta Chi

*Athletic Administration and Athletic Media Relations temporary location is 1301 39th St. N. (701) 231-7447
Something to Keep in Mind
Students, Coaches, Parents, and Event Supervisors

1. This is a **Student Competition**
2. These are **Kids**
3. This is a **Student Learning Experience**
4. The Coaches are Volunteers
5. The Event Supervisors are Volunteers *and Human*
6. There will be **Mistakes (by everyone)**
7. **Students will Benefit** no matter where they place
8. We are building a **Student Learning Team**, working on high level STEM material and standards
9. No matter what happens **Today**, there will be a **Tomorrow** so **Students can Learn from their Mistakes and Accomplishments**
10. The Future is Bright! We hope you enjoy the Tournament!!

**Student's Pledge**

I pledge to put forth my best effort in the Science Olympiad tournament and to uphold the principles of honest competition. In my events, I will compete with integrity, respect, and sportsmanship towards my fellow competitors. I will display courtesy towards Event Supervisors and Tournament Personnel. My actions will exemplify the proud spirit of my school, team, and state.

**Coach's Pledge**

On behalf of the coaches and assistants at this tournament, I pledge to encourage honesty and respect for tournament personnel, our fellow coaches, and other team members. We want our efforts to bring honor to our community and school.

**Parent's Pledge**

On behalf of the parents and spectators I pledge to be an example for our children by:

- respecting the rules of Science Olympiad,
- encouraging excellence in preparation and investigation,
- supporting independence in design and production of all competition devices,
- and respecting the decisions of event supervisors and judges.

Our examples will promote the spirit of cooperation within and among all our participating teams.
North Dakota State Science Olympiad Steering Committee
Paul Kelter, Ph.D., Director, NDSU Center for Science and Mathematics Education
Otto Borchert, NDSU Center for Science and Mathematics Education
Guy Hokanson, NDSU Center for Science and Mathematics Education

Regional Directors
JoDe Knutson-Person, Bismarck State College
Paula Martin, Dickinson State University
JoAnn Schapp, Minot State University
Scott Johnson, Dakota College at Bottineau
Teather Sundstrom, Valley City State University

Supporting Organizations
North Dakota State University – Facilities/Materials
NDSU Center for Science and Mathematics Education

Site Operations
Registration
Team/Coach/Facilitator Communications
University Arrangements
Construction Specialist
Arbitration
Record/Scores Tabulation
Posting of Colors of Opening Ceremony
Restaurants/Eating Facilities
Event Accommodations

Ruth Ann Faulkner, Shanda Lauer
Otto Borchert, Guy Hokanson
Otto Borchert
Guy Hokanson
Charles Sawicki
Nem Schlecht
NDSU Army ROTC
NDSU Dining Services
NDSU Physical Plant
## Participating Schools and Coaches

**Regional Tournament:** Bismarck  \hspace{1cm} **Regional Director:** JoDe Knutson Person

### Division B (Grades 6-9)

<table>
<thead>
<tr>
<th>School Name</th>
<th>Coach</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bismarck-Mandan Home School</td>
<td>Nancy Larson</td>
<td><a href="mailto:raising5@computermail.net">raising5@computermail.net</a></td>
</tr>
<tr>
<td>Center-Stanton Public School</td>
<td>Brooke Boeshans</td>
<td><a href="mailto:brooke.boeshans@k12.nd.us">brooke.boeshans@k12.nd.us</a></td>
</tr>
<tr>
<td></td>
<td>Nikki Fideldy</td>
<td><a href="mailto:nikki.fideldy@k12.nd.us">nikki.fideldy@k12.nd.us</a></td>
</tr>
<tr>
<td></td>
<td>Jodi Hintz</td>
<td><a href="mailto:jodi.hintz@k12.nd.us">jodi.hintz@k12.nd.us</a></td>
</tr>
<tr>
<td>Hazen Public School</td>
<td>Jason Helde</td>
<td><a href="mailto:jason.a.helde@sendit.nodak.edu">jason.a.helde@sendit.nodak.edu</a></td>
</tr>
<tr>
<td></td>
<td>Bret Johnsrud</td>
<td><a href="mailto:bret.johnsrud@sendit.nodak.edu">bret.johnsrud@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Horizon Middle School</td>
<td>Brent Roningen</td>
<td><a href="mailto:brent_roningen@bismarckschools.org">brent_roningen@bismarckschools.org</a></td>
</tr>
<tr>
<td>Wachter Middle School</td>
<td>Ben Schiermeister</td>
<td><a href="mailto:ben_schiermeister@bismarckschools.org">ben_schiermeister@bismarckschools.org</a></td>
</tr>
<tr>
<td></td>
<td>Wade Curren</td>
<td><a href="mailto:wade_curren@bismarckschools.org">wade_curren@bismarckschools.org</a></td>
</tr>
<tr>
<td></td>
<td>Dave Fey</td>
<td><a href="mailto:dave_fey@bismarckschools.org">dave_fey@bismarckschools.org</a></td>
</tr>
<tr>
<td></td>
<td>Peg Stromstad</td>
<td><a href="mailto:peg_stromstad@bismarckschools.org">peg_stromstad@bismarckschools.org</a></td>
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### Division C (Grades 9-12)

<table>
<thead>
<tr>
<th>School Name</th>
<th>Coach</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bismarck High School</td>
<td>Ryan Blet h</td>
<td><a href="mailto:ryan_bleth@bismarckschools.org">ryan_bleth@bismarckschools.org</a></td>
</tr>
<tr>
<td>Center-Stanton Public School</td>
<td>Brooke Boeshans</td>
<td><a href="mailto:brooke.boeshans@k12.nd.us">brooke.boeshans@k12.nd.us</a></td>
</tr>
<tr>
<td></td>
<td>Nikki Fideldy</td>
<td><a href="mailto:nikki.fideldy@k12.nd.us">nikki.fideldy@k12.nd.us</a></td>
</tr>
<tr>
<td></td>
<td>Jodi Hintz</td>
<td><a href="mailto:jodi.hintz@k12.nd.us">jodi.hintz@k12.nd.us</a></td>
</tr>
<tr>
<td>Hazen Public School</td>
<td>Jason Helde</td>
<td><a href="mailto:jason.a.helde@sendit.nodak.edu">jason.a.helde@sendit.nodak.edu</a></td>
</tr>
<tr>
<td></td>
<td>Bret Johnsrud</td>
<td><a href="mailto:bret.johnsrud@sendit.nodak.edu">bret.johnsrud@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>St. Mary's Central High School</td>
<td>Marilyn Miller</td>
<td><a href="mailto:marilyn.miller@sendit.nodak.edu">marilyn.miller@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Wishek Public School</td>
<td>Joshua Wiest</td>
<td><a href="mailto:josh.wiest.1@sendit.nodak.edu">josh.wiest.1@sendit.nodak.edu</a></td>
</tr>
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</table>

**Regional Tournament:** Bottineau  \hspace{1cm} **Regional Director:** Scott Johnson

### Division B

<table>
<thead>
<tr>
<th>School Name</th>
<th>Coach</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Divide County High School</td>
<td>Bob Brown</td>
<td><a href="mailto:bob.brown@sendit.nodak.edu">bob.brown@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Langdon Area Middle School</td>
<td>Linda Hope</td>
<td><a href="mailto:linda.hope@sendit.nodak.edu">linda.hope@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Mohall-Lansford-Sherwood Public School</td>
<td>Thurstan Johnson</td>
<td><a href="mailto:thurstan.johnson@sendit.nodak.edu">thurstan.johnson@sendit.nodak.edu</a></td>
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### Division C

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<thead>
<tr>
<th>School Name</th>
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<tbody>
<tr>
<td>Bottineau High School</td>
<td>Marissa Pewe</td>
<td><a href="mailto:marissa.pewe@k12.nd.us">marissa.pewe@k12.nd.us</a></td>
</tr>
<tr>
<td>Langdon Area High School</td>
<td>Linda Hope</td>
<td><a href="mailto:linda.hope@sendit.nodak.edu">linda.hope@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Mohall-Lansford-Sherwood Public School</td>
<td>Thurstan Johnson</td>
<td><a href="mailto:thurstan.johnson@sendit.nodak.edu">thurstan.johnson@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Mount Pleasant High School</td>
<td>Erin Auth</td>
<td><a href="mailto:erin.auth@sendit.nodak.edu">erin.auth@sendit.nodak.edu</a></td>
</tr>
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</table>
**Regional Tournament:** Dickinson    **Regional Director:** Paula Martin

### Division B

<table>
<thead>
<tr>
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<th>Coach</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Beulah School District</td>
<td>Patricia Mosset</td>
<td><a href="mailto:patricia.mosset@sendit.nodak.edu">patricia.mosset@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Bowman County</td>
<td>Jennifer Holecek</td>
<td><a href="mailto:jennifer.vollmer.1@sendit.nodak.edu">jennifer.vollmer.1@sendit.nodak.edu</a></td>
</tr>
<tr>
<td></td>
<td>Laurie Braaten</td>
<td><a href="mailto:laurie.braaten.1@sendit.nodak.edu">laurie.braaten.1@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Kildeer Public School</td>
<td>Jeff West</td>
<td><a href="mailto:jeff.west@sendit.nodak.edu">jeff.west@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Scranton Public School</td>
<td>Gretchen Flatz</td>
<td><a href="mailto:gretchen.flatz@scrantonpublicschool.com">gretchen.flatz@scrantonpublicschool.com</a></td>
</tr>
<tr>
<td></td>
<td>William Charboneau</td>
<td><a href="mailto:will.charboneau@sendit.nodak.edu">will.charboneau@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Trinity High School</td>
<td>Casey Kessel</td>
<td><a href="mailto:casey.kessel@sendit.nodak.edu">casey.kessel@sendit.nodak.edu</a></td>
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### Division C

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<thead>
<tr>
<th>School Name</th>
<th>Coach</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowman County</td>
<td>Jennifer Holecek</td>
<td><a href="mailto:jennifer.vollmer.1@sendit.nodak.edu">jennifer.vollmer.1@sendit.nodak.edu</a></td>
</tr>
<tr>
<td></td>
<td>Laurie Braaten</td>
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</tr>
<tr>
<td>Dickinson High School</td>
<td>Dena Venneman</td>
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</tr>
<tr>
<td></td>
<td>Caralee Heiser</td>
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</tr>
<tr>
<td>Kildeer Public School</td>
<td>Jeff West</td>
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</tr>
<tr>
<td>Scranton High School</td>
<td>Gretchen Flatz</td>
<td><a href="mailto:gretchen.flatz@scrantonpublicschool.com">gretchen.flatz@scrantonpublicschool.com</a></td>
</tr>
<tr>
<td></td>
<td>William Charboneau</td>
<td><a href="mailto:will.charboneau@sendit.nodak.edu">will.charboneau@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Trinity High School</td>
<td>Casey Kessel</td>
<td><a href="mailto:casey.kessel@sendit.nodak.edu">casey.kessel@sendit.nodak.edu</a></td>
</tr>
</tbody>
</table>

**Regional Tournament:** Minot    **Regional Director:** JoAnn Schapp

### Division B

<table>
<thead>
<tr>
<th>School Name</th>
<th>Coach</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bishop Ryan Catholic School</td>
<td>JoAnn Schapp</td>
<td><a href="mailto:joschapp@brhs.com">joschapp@brhs.com</a></td>
</tr>
<tr>
<td></td>
<td>Kathy Wentz</td>
<td><a href="mailto:joschapp@brhs.com">joschapp@brhs.com</a></td>
</tr>
<tr>
<td>Des Lacs Burlington High School</td>
<td>Thomas Schmid</td>
<td><a href="mailto:tom.schmid@sendit.nodak.edu">tom.schmid@sendit.nodak.edu</a></td>
</tr>
<tr>
<td>Erik Ramstad</td>
<td>Lisa Potts</td>
<td><a href="mailto:lisa.potts@minot.k12.edu">lisa.potts@minot.k12.edu</a></td>
</tr>
<tr>
<td>Nedrose School</td>
<td>Sharon Davis</td>
<td><a href="mailto:calamityjane_nd@hotmail.com">calamityjane_nd@hotmail.com</a></td>
</tr>
<tr>
<td>Velva Public School</td>
<td>Bridget Flaherty</td>
<td><a href="mailto:bridget.flaherty@sendit.nodak.edu">bridget.flaherty@sendit.nodak.edu</a></td>
</tr>
<tr>
<td></td>
<td>Vicki Olson</td>
<td><a href="mailto:vicki.m.olson@sendit.nodak.edu">vicki.m.olson@sendit.nodak.edu</a></td>
</tr>
</tbody>
</table>

### Division C

<table>
<thead>
<tr>
<th>School Name</th>
<th>Coach</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Century High School</td>
<td>Jenny Galbraith</td>
<td><a href="mailto:jegalbraith1@umary.edu">jegalbraith1@umary.edu</a></td>
</tr>
<tr>
<td>Magic City Campus</td>
<td>Michael Kelly</td>
<td><a href="mailto:mkelleyminot@gmail.com">mkelleyminot@gmail.com</a></td>
</tr>
<tr>
<td>MHS-Central Campus</td>
<td>Elizabeth Kelly</td>
<td><a href="mailto:ekelley0975@gmail.com">ekelley0975@gmail.com</a></td>
</tr>
<tr>
<td>TGU Granville</td>
<td>Tina Webb</td>
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</tr>
<tr>
<td>Velva Public School</td>
<td>Bridget Flaherty</td>
<td><a href="mailto:bridget.flaherty@sendit.nodak.edu">bridget.flaherty@sendit.nodak.edu</a></td>
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<tr>
<td></td>
<td>Vicki Olson</td>
<td><a href="mailto:vicki.m.olson@sendit.nodak.edu">vicki.m.olson@sendit.nodak.edu</a></td>
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</tbody>
</table>
### Regional Tournament: Valley City  Regional Director: Teather Sundstrom

#### Division B

<table>
<thead>
<tr>
<th>School Name</th>
<th>Coach</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ben Franklin Middle School</td>
<td>Linda Coons</td>
<td><a href="mailto:coonsl@fargo.k12.nd.us">coonsl@fargo.k12.nd.us</a></td>
</tr>
<tr>
<td>Carrington High School</td>
<td>Pat Boehmer</td>
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</tr>
<tr>
<td></td>
<td>Carrie Nichols</td>
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</tr>
<tr>
<td>Central Cass Public School</td>
<td>Marlen Haugen</td>
<td><a href="mailto:marlen.haugen@sendit.nodak.edu">marlen.haugen@sendit.nodak.edu</a></td>
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<tr>
<td></td>
<td>Sally Anderson</td>
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<tr>
<td>Jamestown Middle School</td>
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<tr>
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<td>Ben Elder</td>
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<tr>
<td></td>
<td>Sally Anderson</td>
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<tr>
<td>Davies High School</td>
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<td></td>
<td>Shawn Carney</td>
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</tr>
<tr>
<td></td>
<td>Stephen Trumbauer</td>
<td><a href="mailto:trumbas@fargoschools.org">trumbas@fargoschools.org</a></td>
</tr>
<tr>
<td>Fargo South High School</td>
<td>Andrea Harmon</td>
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</tr>
<tr>
<td></td>
<td>Angela Larson</td>
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</tr>
<tr>
<td>Kulm Public High School</td>
<td>Ashley Farnsworth</td>
<td><a href="mailto:afarnsworth@kulm.k12.nd.us">afarnsworth@kulm.k12.nd.us</a></td>
</tr>
<tr>
<td></td>
<td>Derrick Bopp</td>
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</tr>
<tr>
<td>Medina Public School</td>
<td>Joyce Spitzer</td>
<td><a href="mailto:spitzers@daktel.com">spitzers@daktel.com</a></td>
</tr>
</tbody>
</table>

#### WORD SEARCH – ELEMENTS

CAICUM  CARBON  CHLORINE  COBALT  COPPER  HELIUM  HYDROGEN  IODINE  LEAD  LITHIUM  NEON  NICKEL  NITROGEN  OXYGEN  PLATINUM  POTASSIUM  SILVER  TIN  TITANIUM  ZINC

Science Olympiad Facilitators and Helpers

We wish to thank all facilitators and helpers, listed and unlisted, for their time in helping to make the 2015 Science Olympiad a success.

Air Trajectory B+C
Amanda Hauf
Lonnie Hass
Joe Latimer

Anatomy B+C
Tara Slominski
Kimberly Booth
Jon Dees

Astronomy C
Scarlet Gray Bernard
Sumathy Krishnan
Carin Engler

Bio-Process Lab B
Lauren Dennhardt
Sara Bowman

Bottle Rocket B
Oz Khan
CJ Ifepe
Jiawei Zhang
Sardar Zahid

Bridge Building B+C
Andrew Merkel
Tyler Toepke-Floyd
Josh Roesler

Bungee Drop C
Robert Correll
Beth Twomey

Can’t Judge a Powder B
Stefan Vetter
Rita Ruud

Cell Biology C
Jessie Arneson
Melody McConnell

Chemistry Lab C
Catherine Sutton
Erin Richards
Retheesh Krishnan
Ramya Raghunathan

Compound Machines C
Joshua Hest
Melissa Hest

Crave the Wave B
Sylvio May
Guilherme Volpe Bossa

Crime Busters B
College of Science
and Math Ambassadors
Kaitlin Kavli
Matt Urich
Leonard Cook

Disease Detectives B+C
Donald Miller

Dynamic Planet B+C
Steven John Giesler

Elastic Launched Glider B
Nassibeh Hosseini
Andy Narvesen
Sarah Hogfoss
Hesam Sarvghad Moghaddam

Entomology B+C
Jamie Kopco
Eduardo Faúndez
Marion Carvajal
Aleix Valls
Maria Guixé
Tyler Pollman

Experimental Design B
Paul Kelter
Barb Kelter
Michelle Gilley

Experimental Design C
Rachel Gellerman
Katrina Gellerman
Arden Warm Jr
Nick Gellerman

Fossils B+C
Jessie Rock
Lisa Romano
Hannah Marquardt

Game On C
Simone Ludwig
Sarah Demarais
Ayushi Saxena

Geologic Mapping C
Stephanie Day
Gang Shen
Debasree Chatterjee-Dawn

Green Generation B+C
Bruce Steele
Jimmy Docken
Eric Krall
Jonathan Moses

Helpers/Runners
Stephanie Sculthorp-Skrei
Ethan Sculthorp

It’s About Time C
Aaron Feickert

Meteorology B
Adnan Akyuz
Kaci Levorsen
Heather Evin
Jared Oachs
Beth Ingram
Nichole Ellingson

Mission Possible C
Isaac Fromming
Xinnan Wang
Matti Kariluoma

Picture This B
Brian Miller
Gerard Kokett
Danielle Stenhjem

Protein Modeling C
Christopher Colbert
Sangita Sinha
Shreya Mukhopadhyay
Shane Wyborny
Karen Glover

Road Scholar B
Donald Schwert

Robo-Cross B
Brian Slator
Katy Cox
Brady Goenner
Jonathon Edstrom

Scrambler C
Justin Roberson
Shania Wojtowicz

Simple Machines B
Gokhan Egilmez

Solar System B
Scarlet Gray Bernard
Sumathy Krishnan

Technical Problem Solving C
Sierra Walker
Michael Hodny

Wheeled Vehicle B
Ali Amiri
Erika Olson
Mojtaba Ahmadi
Jack Connelly

Wright Stuff C
Sayeed Sajal
Setare Amiri
Zach Boelter
Dipankar Mitra

Write It Do It B+C
Mohana Asha Latha Dubasi
Lauren Singelmann
Mariah Brooks
Mattie McGee
Flag Etiquette

The Salute

To salute, all persons come to attention. Those in uniform give the appropriate formal salute. Citizens not in uniform salute by placing their right hand over the heart and men and with head cover should remove it and hold it to left shoulder, hand over the heart. Members of organizations in formation salute upon command of the person in charge.

The National Anthem

When the national anthem is played or sung, citizens should stand at attention and salute at the first note and hold the salute through the last note. The salute is directed to the flag, if displayed, otherwise to the music.

On the night of September 3, 1814 during the bombardment of Fort McHenry in Baltimore Harbor, the American patriot, Francis Scott Key was held captive aboard the British flagship the HMS Tonnant. From his position on the ship, Key observed a large flag made with fifteen stars and fifteen stripes waving proudly and defiantly high above the fort. He was so inspired by the sight of that flag that he wrote a poem. The poem that he wrote is what we now recognize as our National Anthem. Please stand and remove your hats to give honor to our flag and for those who have bravely given their lives to defend it.

O! say can you see by the dawn’s early light
What so proudly we hailed at the twilight’s last gleaming?
Whose broad stripes and bright stars through the perilous fight,
O’er the ramparts we watched were so gallantly streaming?
And the rockets' red glare, the bombs bursting in air,
Gave proof through the night that our flag was still there.
Oh, say does that star-spangled banner yet wave
O’er the land of the free and the home of the brave?
Cell Structure

Across
4 receive and send cell materials
7 produces energy for the cell
9 passageways through the cell
10 controls what goes in and out
11 group of organs working together
14 produces cell energy
15 directs cell activities

Down
1 stiff wall surrounding cell
2 cells that perform the same function
3 factories that produce protein
5 life from non-living sources
6 basic unit of structure
8 discovered the cell
12 structure composed of tissues
13 stores food, water, waste

Answer Key is available at: http://goo.gl/xKskUc
HOW TO APPLY
The North Dakota Governor’s Schools program is looking for high school sophomores and juniors who are ready for a challenge. See your guidance counselor or principal for more information.

WHAT DOES IT COST?
The majority of costs are covered by the state of North Dakota, NDSU and other sources for North Dakota residents. All students are responsible for a $100 activity fee.

MORE INFORMATION
www.ndsu.edu/govschool