

# Appendix Documents

## **In this section you will find**

1. Beginning of the year introductory letter and informational survey
2. Interest forms for students to rate their level of interest in the events (separate forms for Division B and Division C)
3. Sample Permission slip to participate at invitationals and regional tournament
4. Release of Liability waiver for Macomb Community College (ALL students must turn in a signed waiver in order to compete at the Regional Tournament)

## **IMPORTANT:**

These are just sample documents. They have been provided for you in a word document so that you can *make changes as appropriate* to school name and dates of competitions, for example. Please make any modifications as you see necessary to make the documents relevant to you and your team. In particular, make sure you check the events for the “Interest Forms” as there are several changes every year.

SCHOOL NAME  
**SCIENCE OLYMPIAD**

Welcome to Science Olympiad!

My name is \_\_\_\_\_ and this is my \_\_\_\_ year as head coach at \_\_\_\_\_. We are looking forward to another great year for \_\_\_\_\_ and Science Olympiad. In March 2012, \_\_\_\_\_ placed \_\_\_\_ in the Macomb Regionals (out of 32 schools). In May 2012, we placed \_\_\_\_ at the State competition (out of 48 middle schools). **Go \_\_\_\_\_!** If you are interested in participating in the 2012-2013 \_\_\_\_\_ Science Olympiad, please fill out the following forms and return it to the school office by **Sept \_\_\_\_\_, 2012**.

**Sheet 2:** This is where you provide contact information for me. Please make sure you indicate at least (1) email address because this will be the primary way I will communicate with students and parents. Make sure you fill out your name, phone number, grade level, and email information, and other questions. Fill in the Day/Time Matrix. Please indicate other activities you are participating in this fall and winter (days and times, please).

**Sheet 3 and 4:** Sheets 3 and 4 have a list of the 23 events and their descriptions. Please mark your top ten (1-10) choices in order of interest/preference (1 best, 10 least) next to the event.

**Tryout practices** will begin in October, and the team and alternates will be selected by the holiday recess in December. I would like each event to have a coach assigned by the parent meeting so these practices can begin. Parent Meeting: October \_\_\_\_, 2012. We will discuss coaching assignments, student event assignments, and expectations for all during the tryout period.

**New Coaches:** Please call me if you have questions about coaching and the time commitment required.

**Alternates:** There will also be **alternates** who will prepare for competitions and may be called to compete. This year, I would like every student to have a parent/relative coach for at least one event. In the middle of December, **Coaches** will provide me with grades for each student using the following formula:

**Aptitude/Ability – 50%**  
**Attendance/Participation – 25%**  
**Teamwork/Attitude -- 25%**

The team and alternates will be announced before the holiday break. (Note: 15 students are allowed to compete at each competition. There can be only (5) 9<sup>th</sup> graders on the roster per competition for schools with 7, 8 and 9<sup>th</sup> graders).

**Important Dates:**

Parent/Student Meeting: October \_\_\_\_\_ - Media Center

State Coaches Workshop: Saturday December 1, 2012 at MSU.

Regional Coaches Extravaganza: December 19, 2012 (South Lake High School)

Macomb Regional Competition: Saturday March 23rd, 2013 (Macomb South Campus, Warren)

Michigan State Competition: Saturday April 27th, 2013 (Michigan State University, East Lansing)

National Competition on Saturday May 17-18, 2013 (Dayton, Ohio)

**If you have any questions, please contact \_\_\_\_\_**  
**My email address is \_\_\_\_\_**

Please fill out the following information:

Student's Name \_\_\_\_\_ Grade \_\_\_\_\_

Phone# \_\_\_\_\_ Student Email: \_\_\_\_\_

Parents' Names \_\_\_\_\_

Parents' Emails \_\_\_\_\_

Please list your Coaching preference(s)- Please list Event(s):

\_\_\_\_\_

(Parents, older siblings, aunts/uncles: we really need your help to make this successful. I encourage you to get involved – there is no team without committed coaches!)

What activities (sports, clubs, church etc.) do you think you will participate in during the fall, winter and spring?

\_\_\_\_\_  
\_\_\_\_\_

Have you participated in Science Olympiad before? \_\_\_\_yes \_\_\_\_no

If yes, what school and what events? (elementary and/or middle school)

\_\_\_\_\_  
\_\_\_\_\_

Please indicate the days/times and reasons below that you will be unavailable to come to meetings from Oct through December:

	8:25-10am	10-12am	12-2pm	2:00-3:14pm	3:30-5:00pm	5-7pm	7-9pm
Mon.	school	school	school	school			
Tues.	school	school	school	school			
Wed.	school	school	school	school			
Thurs	school	school	school	school			
Fri.	school	school	school	school			
Sat.							
Sun.							

**Science Olympiad Interest Form**

**DIVISION B**

**2012-13 Events**

Instructions: Mark your top ten (1-10) choices in order of preference (1 best, 10 least) next to the event.

\_\_\_\_\_ **Anatomy** (B) - Teams will be tested on their knowledge of anatomy and health concepts including nervous and digestive systems.

\_\_\_\_\_ **Boomilever** (B) - Students will build a cantilevered wooden structure.

\_\_\_\_\_ **Crime Busters** (B) - Teams will identify the perpetrators of a crime or crimes by using paper chromatography and analysis of unknown solids, liquids, and plastics found at the scene of a crime.

\_\_\_\_\_ **Disease Detective** (B) - This event requires students to apply principles of epidemiology to a published report of a real-life health situation or problem. (This year: Environmental Quality)

\_\_\_\_\_ **Dynamic Planet** (B) - Teams will work at stations that display a variety of earth science materials and related earth science questions. (This year: Glaciers)

\_\_\_\_\_ **Experimental Design** (B) - Given a set of unknown objects, teams will design, conduct, analyze and write-up an experiment.

\_\_\_\_\_ **Food Science** (B) - Using their understanding of the chemistry and physical properties of baking ingredients, teams will answer questions at a series of stations.

\_\_\_\_\_ **Forestry** (B) - This event will test student knowledge of North American trees that are on the Official National Tree List.

\_\_\_\_\_ **Helicopters** (B) - Students will construct and test free flight rubber-powered helicopters prior to the tournament to achieve maximum flight times.

\_\_\_\_\_ **Heredity** (B) - Students will solve problems and analyze data or diagrams using their knowledge of the basic principles of genetics.

\_\_\_\_\_ **Keep The Heat** (B) - Teams must construct an insulated device prior to the tournament that is designed to retain heat. Students must also complete a written test on thermodynamic concepts.

\_\_\_\_\_ **Meteorology** (B) - This event involves the use of process skills as applied to meteorology (This year: Everyday Weather).

\_\_\_\_\_ **Metric Mastery** (B) - Students will demonstrate an intuitive feeling for estimating then measuring metric units including mass, volume, area, surface area, force, distance, time and temperature.

\_\_\_\_\_ **Mission Possible** (B) - Prior to the competition, participants will design, build, test and document a "Rube Goldberg-like device" that completes a required Final Task using a sequence of consecutive tasks.

\_\_\_\_\_ **Mousetrap Vehicle** (B) - Teams will design, build and test a vehicle using one mousetrap as the sole means of propulsion to reach a target as quickly, accurately and as close to their predicted time as possible.

\_\_\_\_\_ **Reach for the Stars** (B) - Students will demonstrate an understanding and basic knowledge of the properties and evolution of stars, open clusters and globular clusters, and normal and star-forming galaxies.

\_\_\_\_\_ **Road Scholar** (B) - Requires the accurate interpretation and understanding of various map features using a variety of road and topographic maps.

\_\_\_\_\_ **Rocks and Minerals** (B) - Teams will demonstrate their knowledge of rocks and minerals.

\_\_\_\_\_ **Shock Value** (B) - Students will compete in activities involving basic understanding of electricity, magnetism and simple electrical devices.

\_\_\_\_\_ **Sounds of Music** (B) - Prior to the competition, students will build two instruments based on a 12 tone tempered scale, prepare to describe the principles behind their operation and be able to perform a major scale, a required melody and a chosen melody with each.

\_\_\_\_\_ **Water Quality** (B) - The event will focus on evaluating aquatic environments.

\_\_\_\_\_ **Write It Do It** (B) - Technical writing exercise where students write a description of a contraption given to them at competition, and their teammates will attempt to recreate it using that written description and materials provided.

**Science Olympiad Interest Form**

**DIVISION C**

**2012-13 Events**

Instructions: Mark your top ten (1-10) choices in order of preference (1 best, 10 least) next to the event.

\_\_\_\_\_ **Anatomy & Physiology (C)** - This event encompasses the anatomy and physiology of selected body systems, this year limited to nervous, excretory and digestive systems.

\_\_\_\_\_ **Astronomy (C)** - Teams will demonstrate an understanding of the basic concepts of math and physics relating to stellar evolution and type II supernovas

\_\_\_\_\_ **Boomilever (B/C)** - Students will build a cantilevered wooden structure..

\_\_\_\_\_ **Chemistry Lab (C)** - Teams will demonstrate chemistry laboratory skills related to periodicity and equilibrium.

\_\_\_\_\_ **Circuit Lab (C)** - Students will compete in theoretical and practical activities involving knowledge of direct current (DC) electrical circuits.

\_\_\_\_\_ **Designer Genes (C)** - Students will solve problems using their knowledge of molecular genetics and biotechnology.

\_\_\_\_\_ **Disease Detective (C)** - This event requires students to apply principles of epidemiology to a published report of a real-life health situation or problem. (This year: Environmental Quality)

\_\_\_\_\_ **Dynamic Planet (C)** - Teams will work at stations that display a variety of earth science materials and related earth science questions. (This year: Glaciers)

\_\_\_\_\_ **Elastic Launched Glider (C)** - Students will design, build and test two elastic launched gliders capable of the highest time aloft.

\_\_\_\_\_ **Experimental Design (C)** - Given a set of unknown objects, teams will design, conduct, analyze and write-up an experiment.

\_\_\_\_\_ **Fermi Questions (C)** - A Fermi Question is a science related question that seeks a fast, rough estimate of a quantity which is difficult or impossible to measure directly. Answers will be estimated within an order of magnitude recorded in powers of ten.

\_\_\_\_\_ **Forensics (C)** - Students will identify polymers, solids, fibers, and other materials in a crime scenario.

\_\_\_\_\_ **Forestry (C)** - This event will test student knowledge of North American trees that are on the Official National Tree List.

\_\_\_\_\_ **Gravity Vehicle (C)** - Teams design, build and test one vehicle and ramp that uses gravitational potential energy as the vehicle's sole means of propulsion to reach a target point as quickly, accurately, and as close to their predicted time as possible.

\_\_\_\_\_ **MagLev (C)** - Competitors may construct up to two self-propelled magnetically levitated vehicles powered by batteries that turn up to two propellers to move the vehicle down a magnetic track. Students will also be tested on their knowledge of magnetism and related topics.

\_\_\_\_\_ **Materials Science (C)** - Teams will answer a series of questions or complete tasks involving the scientific processes of chemistry focused in the areas of materials science.

\_\_\_\_\_ **Remote Sensing (C)** - Teams use maps and remote sensing technology to explain human impact on the Earth.

\_\_\_\_\_ **Robot Arm (C)** - Prior to the competition, teams must design, build, document and test one robotic device to move scored items.

\_\_\_\_\_ **Rocks and Minerals (C)** - Teams will demonstrate their knowledge of rocks and minerals.

\_\_\_\_\_ **Technical Problem Solving (C)** - Teams will gather and process data to solve problems.

\_\_\_\_\_ **Thermodynamics (C)** - Teams must construct an insulated device prior to the tournament that is designed to retain heat. Students must also complete a written test on thermodynamic concepts.

\_\_\_\_\_ **Water Quality (C)** - The event will focus on evaluating aquatic environments.

\_\_\_\_\_ **Write It Do It (C)** - Technical writing exercise where students write a description of a contraption given to them at competition, and their teammates will attempt to recreate it using that written description and materials provided.

### **Science Olympiad Permission Slip**

I give permission for my daughter/son to participate with \_\_\_\_\_ in the 2013 Science Olympiad Tournaments:

Saturday, \_\_\_\_\_ at Bishop Foley High School in Madison Hts.

Saturday, \_\_\_\_\_ at International Academy in Troy.

Saturday, \_\_\_\_\_ at Macomb College – South Campus, located at 14500 E. 12 Mile Rd., Warren.

I understand that if \_\_\_\_\_ qualifies for the State Competition, that I give my permission for my child to participate on Saturday \_\_\_\_\_ in the Michigan Science Olympiad competition at Michigan State University in East Lansing.

I understand that adequate and appropriate supervision will be provided. I recognize, however, that unanticipated situations and problems can arise on any trip, school-sponsored or otherwise, which are not reasonably within the control of the supervising coaches or volunteers. In such instances, I agree that the school, coaches and volunteers are not to be held responsible in the event of an accident or injury and we will hold the school, coaches, and volunteers harmless from any costs, liability, or expenses related thereto.

Please fill out this permission slip and return to \_\_\_\_\_ or the school office by \_\_\_\_\_.

Student's Name \_\_\_\_\_

Address \_\_\_\_\_

Home Phone # \_\_\_\_\_ Student Cell # \_\_\_\_\_

Parent's Name: \_\_\_\_\_

Parent's Cell # \_\_\_\_\_

Parent's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Emergency Contact Person, in case parent is unavailable:

\_\_\_\_\_ Phone # \_\_\_\_\_

Please list any medical conditions, allergies, or medications that we need to be aware of: \_\_\_\_\_

\_\_\_\_\_



## RELEASE OF LIABILITY

In consideration of being allowed to participate in the Macomb Community College ("College") Science Olympiad, Participant hereby releases, discharges and covenants not to sue the College, its trustees, agents and employees from and against any and all liability for any and all claims, damages, costs (including attorneys fees) or causes of action I have, or may in the future have, as a result of conditions, illnesses or injuries (including death), or damage to or theft of property, if sustained or incurred by Participant as a result of Participant's participation in the College Science Olympiad.

**By signing this Release of Liability, I certify that I have read this Release and understand its terms.**

Date: \_\_\_\_\_

\_\_\_\_\_  
Participant's Name (please print)

\_\_\_\_\_  
Signature of Participant/Participant's parent or  
Guardian if Participant under 18 years of age