



Texas Math & Science Coaches Association

Vol. 24, No. 2

TMSCA Newspaper

October 2013

UIL announces changes to high school science contest

The following announcement is from Dr. James Friedrichsen, UIL Physics Contest Director and Dr. David Stevens, UIL Director of Academics:

Dr. Jennifer Fritz (Lecturer in Biology at UT Austin) is the new Biology Contest Director. Although not in the C&CR yet, Dr. Fritz has recommended the following resources for study:

Texts:

Biology, by Campbell, et.al.
specifically the 8th or 9th editions
Principles of Life, by Hillis & Saldava

Online:

University of Texas Bio 311C
site: [http://bio311.biosci.
utexas.edu/](http://bio311.biosci.utexas.edu/)
Learn Genetics University of
Utah: [http://learn.genetics.utah.
.edu/](http://learn.genetics.utah.edu/)

Kimball's Biology Pages:
[http://users.rcn.com/jkimball.
ma.ultranet/BiologyPages/](http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/)

Dr. Fritz has also identified the main Biology topics to be reviewed:

1. Structure Relates to Function
 - Basic Biochemistry
 - Basic Cell Biology
 - Biological Membrane
2. Energy is Stored, Used and Transformed in Living Systems
 - Respiration and Photosynthesis
 - Metabolism
 - Enzyme Kinetics
3. Gene Expression
 - DNA, RNA, and Proteins
 - Protein synthesis
 - Regulation of gene expression
 - DNA Technology
4. Genetics and Inheritance
 - Mendelian inheritance
 - Molecular inheritance- Chromatin, chromosomes,

chromatids
Genome Structure/Human
Life Cycle
Cell Division-Mitosis and Meiosis

5. Evolution
 - Microevolution: Selection, Mutation, Migration and Genetic Drift
 - Evidence of Macroevolution
 - Speciation and Extinction
6. Origin and Diversity of Life on Earth
 - 3 Domains of Life
 - Animal and Plant Behavior
 - Biological Hierarchy
7. Ecology and the Environment
 - Population Biology
 - Community Dynamics
 - Biogeochemical Cycles

Furthermore there have been several changes to both the Science Contest in general and the Physics portion in particular. The first change to the Science Contest is that the purpose of the Science Contest has been updated in the C&CR:

"The purpose of the Science Contest is to challenge students in the basic fundamental principles of science, to promote learning in biology, chemistry, and physics, to foster a sense of enthusiasm about advanced topics and courses in the sciences and to help prepare students for the rigor of college level courses."

The Science Contest Directors believe that this better describes what is currently being done in the Science Contest.

Additionally, starting this season on the Science Contest, the number of answer options will not be restricted to just 5! In general, the number of answer options will depend upon the type of question. This will allow

Set your sights on
San Antonio

The University of Texas at San Antonio will host TMSCA's two championship meets this year.

High School State Meet
March 15, 2014

• • • • •

Middle School Championship Meet
April 12, 2014
(tentative pending UTSA approval)

questions where the answer options are greater than, equal to, or less than a particular quantity. Also, the answers will no longer need to be separated by ± 5 percent. This will allow for additional wrong answers that follow from common mistakes to be included as answer choices. More importantly, this will allow for more realistic pH problems in chemistry and will better model actual college-level exams.

On the Physics portion of the contest, there will be no restriction on the topics that can be asked. This will allow problems that require Calculus to be asked on the contests. This will better model the introductory Physics classes taken by science majors at most universities, and will also serve to help differentiate the scores for the top students. Also, questions on reactive ac circuits will be allowed and could include phasor diagrams.

2013-2014 TMSCA Executive Board

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Middle School representative

Joe Hay
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Corpus Christi 78418-4706
(361) 694-9300

TMSCA TENTATIVE 2013-2014 CALENDAR

JULY 2013

S	M	T	W	Th	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

4 Independence Day

1 New Year's Day
 11 HS (UIL A)
 11 Gear-Up MS Online
 18 HS 7/MS 7
 20 M.L. King Day
 25 HS 8/MS 8

JANUARY 2014

S	M	T	W	Th	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

AUGUST 2013

S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

1 HS 9/MS 9
 8 HS (UIL B)/MS 10
 14 Valentine's Day
 15 HS 10/MS 11
 17 Presidents' Day
 22 HS 11/MS 12

FEBRUARY 2014

S	M	T	W	Th	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

SEPTEMBER 2013

S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

2 Labor Day

1 HS 12(UIL D)/MS 13
 8 MS Regional Qualifier
 15 HS TMSCA State Meet
 17-22 1st Week HS UIL District
 24-29 2nd Week HS UIL District
 21-30 MS Tune-Up On-Line

MARCH 2014

S	M	T	W	Th	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

OCTOBER 2013

S	M	T	W	Th	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

14 Columbus Day
 19 MS Kick-Off On-Line
 26 HS 1/MS 1
 31 Halloween

5 MS Champ. (alt)
 12 MS Champ. Meet
 18 Good Friday
 20 Easter Sunday
 21-27 HS On-Line Meet

APRIL 2014

S	M	T	W	Th	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

NOVEMBER 2013

S	M	T	W	Th	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

2 HS 2/MS 2
 9 HS 3/MS 3
 11 Veterans Day
 16 HS 4/MS 4
 23 HS 5/MS 5
 28 Thanksgiving Day

1-3 UIL HS Regional Meet
 11 Mother's Day
 19-21 UIL State Meet
 26 Memorial Day

MAY 2014

S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

DECEMBER 2013

S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

7 HS 6 (UIL C)/MS 6
 25 Christmas Day

15 Father's Day

JUNE 2014

S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Upcoming Tournaments

October 26

Clements High School, south. TM-SCA practice meet. ms ns, cal, sci, mth. Contact Maria Garcia at 4200 Elkins Rd., Sugar Land 77479. School phone: (281)634-2100. Email: maria.garcia@fortbendisd.com.

October 26

Sharyland North JH. ms ns, cal, sci, mth, all UIL. Contact Ann Marie Priolo at 5100 Dove. Ave., McAllen 78504. School Phone: (956)686-1415. Email: apriolo@sharylandisd.org.

November 9

Morris Upchurch Middle School. ns, cal, math, sci. Contact Kendra Bates at 500 5th Street, Queen City. Phone: (903)796-6412. Email: kbates@qcisd.net.

November 16

Elkins High School, east. HS

NS, CAL, SCI, MTH. ms ns, cal, sci mth. Contact Will Corrington at 7007 Knights Court, Missouri City 77459. School phone: (281)634-9936. Email: william.corrington@fortbendisd.com.

November 23

Dulles Middle School. TMSCA practice meet. HS NS, CAL, SCI, MTH. ms ns, cal, sci, mth. Subject area science. Contact Drew Poche at 550 Dulles Ave., Sugar Land 77478. School phone: (281)634-5600. Email: drew.poche@fortbend.k12.tx.us. Register at <http://tmsca.skc.name/>

February 15

South Plains College, Panhandle. HS NS, CAL, SCI, MTH, Computer Science written only. Contact Kathy Holster at 1401 S. College, Levelland 79336. School phone: (806)716-2664. Email: kholster@southplainscollege.edu.

February 22

Sharyland North JH. ms ns, cal, sci, mth. Contact Ann Marie Priolo at (956)686-1415. Email: apriolo@sharylandisd.org. Meet to be held at Sharyland High School cafeteria at 1106 North Shary Rd., Mission 78572.

March 8

Regional Qualifier. Morris Upchurch Middle School. ns, cal, math, sci. Contact Kendra Bates at 500 5th Street, Queen City. Phone: (903)796-6412. Email: kbates@qcisd.net.

March 8

Regional Meet. Wylie Junior High, west. ms ns, cal, sci, mth. Contact Carol Stringfellow at 4010 Beltway, Abilene 79606. School phone: (325)695-1910. Email: cstringfellow@wylie.esc14.net.

Practice Tournament Information Request

For publication in the TMSCA NEWS, please mail to:
Rhonda Moore, 7500 Paxton St., Austin, TX 78766 or e-mail to: rhondamoore512@gmail.com

School Name _____

Contact Person _____

School Address _____

City _____ ZIP code _____ School Phone (____) _____

E-mail address _____

Tournament date _____ Alternate Date _____

Location in state (Circle one) Central East North Panhandle South West

Contests offered (Please ✓ appropriate contests)

_____ HS Number Sense

_____ HS Calculator

_____ HS Science

_____ HS Mathematics

_____ MS Number Sense

_____ MS Calculator

_____ MS Science

_____ MS Mathematics

_____ Subject Area (i.e., Biology, Chemistry, Physics)

_____ Subject Area Math (i.e., Algebra, Geometry, etc.)

_____ Math topics (i.e., logs, series, etc.)

_____ All UIL (N, C, S, M & other UIL literary events)

Other contests (please specify) _____

Tournament restrictions _____

TMSCA Annual Income/Expenses

2012-2013

INCOME

HS Meet	\$23,862.50
Interest	\$160.94
Membership	\$16,825.00
Catered Meals	\$10,207.00
Miscellaneous	\$156.42
MS Meet	\$35,241.00
On-Line Meet	\$1,510.00
Other	\$1,001.29
Practice Room	\$1,070.52
Test Pool	\$19,960.00
Tests	\$31,350.00
Tshirts	\$13,514.00
Donations-Scholarships	

\$9,016.53

TOTAL INCOME \$163,875.20

EXPENSES

Bank Service Charge	\$25.00
Bookkeeper	\$127.78
Postage	\$124.56
Supplies	\$3.22
Capitol Conference	\$299.35
Travel	\$299.35
Computer Program	\$3,973.03
Contract Services	\$37,750.02
Auditor	\$200.00
Bookkeeper	\$1,800.00
Editor	\$6,750.00
Exec Sec	\$29,000.02
Exec. Meeting	\$4,898.89
Meals	\$594.96
Meeting Rooms	\$255.30
Motel	\$1,754.01
Travel	\$2,294.62
Exec. Secretary	\$2,001.71
Phone-Long Dist	\$1,516.24
Postage	\$104.23
Printing	\$25.80
Supplies	\$101.14
Travel	\$254.30
HS Meet	\$18,568.38
Appreciation	\$38.50
Awards	\$3,034.10
Catered Meals	\$4,652.00
Cleanup	\$1,026.28
Equip Rental	\$825.00
Liaison	\$350.00
Meeting Room	\$122.00

Postage	\$13.61
Printing	\$836.28
Proctor Expense	\$358.60
Programmer	\$400.00
Refreshments	\$408.53
Supplies	\$334.05
Test Writing	\$1,145.00
Travel:Meals	\$239.13
Travel:Motel	\$3,194.83
Travel:Transport	\$1,590.47
Membership	\$15.00
Supplies	\$15.00
MS Meet	\$21,560.18
Appreciation	\$70.85
Awards	\$6,963.45
Catered Meals	\$4,122.75
Cleanup	\$1,642.54
Equip Rental	\$664.00
Hotel	\$1,383.27
Liaison	\$350.00
Meals	\$293.48
Meeting Room	\$122.00
Postage	\$233.38
Printing	\$624.60
Proctor Expense	\$358.60
Proof Tests	\$461.47
Refreshments	\$198.75
Sound System	\$410.00
Supplies	\$328.32
Test Writing	\$2,100.00
Transportation	\$1,232.72
On-Line Meet	\$635.00
Test Writing	\$525.00
Proof Tests	\$110.00
Newspaper	\$247.45
Electronic Fee	\$216.00
Postage	\$27.00
Supplies	\$4.45
Publicity	\$618.16
Appreciation	\$376.15
Postage	\$65.14
Supplies	\$176.87
Reinbursement	
Test Pool	\$10,900.52
Postage	\$1,199.23
Printing	\$9,660.30
Supplies	\$40.99
Tests	\$20,957.14
Bonuses	\$3,197.58
High School	\$11,615.00

Scholarship winners announce college choices

Schools attended by scholarship recipients are:

The Lockheed-Martin Scholarship winners (included below) are attending Texas A&M (2), University of Texas, Harvard, MIT.

- 1 Air Force Academy
- 1 Cal Tech
- 1 Colorado School of Mines
- 1 Darmouth
- 1 Harvard
- 1 Midwestern University
- 1 MIT
- 1 Notre Dame
- 1 Rice
- 1 SMU
- 2 Stanford
- 6 Texas A&M - College Station
- 1 Texas A&M - Commerce
- 2 Texas Tech
- 8 University of Texas - Austin
- 1 Weatherford College

Middle School	\$6,300.00
Postage	\$(155.44)
Treasurer	\$219.59
Supplies	\$219.59
Tshirts	\$4,958.58
Cost	\$4,799.43
Sales	\$159.15
UIL Comm.Meeting	\$279.49
Meals	\$19.34
Motel	\$97.75
Travel	\$162.40
WebPage	\$431.76
Scholarships-'12	\$24,250.00
Total Expenses	\$152,717.03
NET	\$11,158.17

Practice room requirements explained

There is a \$2 charge per contestant. There is a minimum requirement of one adult for every 10 contestants and a maximum of two adults for every 10 contestants free of charge. For any additional non-contestants, an additional fee of \$3 will be charged.

Again, practice space may be very limited this year, and it will be on a first come, first served basis. Please get your reservations in early. We realize that what you are sending us now is only an estimate, and changes can be made once qualification for the meet is finalized.

Official Registration - Practice Rooms

High School State Meet – March 15, 2014

Middle School Championships – April 12, 2014 (tentative)

Please check one:

☐ High School Reservation for Saturday, March 15, 2014

☐ Middle School Reservation for Saturday, April 12, 2014

Name of School: _____

Contact Person: _____

Contact Phone Number: _____

Fax Number: _____

E-mail Address: _____

Number of Contestants: _____

(Cost will be \$2 per student.)

Estimated Number of Non-contestants: _____

(Cost will be \$3 per non-contestant after two maximum adults per each 10 students)

Email this registration to execsectmsca@gmail.net

Registration Deadlines:

High School Deadline – Friday, March 1, 2013

Middle School Deadline – Friday, March 22, 2013

2013-14 Texas Math & Science Coaches Association Membership

Print or type all information. Email membership form to: execsectmsca@gmail.com or mail to TMSCA, PO Box 206, Olney, TX 76374-0206 or fax 940-563-1006.

() School \$50 (pays for four members) () For each Additional Coach \$25
 () Associate \$15 (newspaper subscription only) \$15 () Student (newspaper subscription only) \$15 () Retired, complementary N/C

If mailing your membership include either a check or a PO number; if emailing or completing an online membership form, enter PO _____

You must designate a PRIMARY CONTACT.

This is the person responsible for maintaining school information in the on-line database and registering students for TMSCA meets through the on-line system.

In addition, duties include receiving email invoices and directing them to appropriate source for payment.

*** Indicates information required for processing membership.** Email address will be published in the TMSCA directory, but phone numbers remain confidential.

***PRIMARY CONTACT** 1 _____ *Contact Phone _____ *Email _____

Additional Coach 2 _____ *Contact Phone _____ *Email _____

Additional Coach 3 _____ *Contact Phone _____ *Email _____

Additional Coach 4 _____ *Contact Phone _____ *Email _____

*School Name _____ * **School District** _____ *School Phone _____

*School Address _____ *School City _____ *Zip _____ Fax _____

* Fill in: UIL Classification (1A, 2A, 3A, 4A, 5A) _____ * UIL Region (I, II, III, IV) _____ UIL District Number _____ OR Non-UIL School _____

For coaches of **junior high/elementary schools**, fill in the information on the line below:

High school your students should attend according to the official feeder plan of your district _____

FOR OFFICE USE ONLY – School Tag: _____

Order Method: _____ Email _____ Fax _____ Mail _____ Delivery Method of Membership Cards: _____ USPS _____ Email _____

Date of Delivery: _____ Processed By: _____ Invoiced to: _____ Date: _____

2013-2014 TMSCA Subscription Order Form

The prices on this form are valid through July 1, 2014. Test series that are no longer on this order form are available through the TMSCA State office. If you are unable to administer tournament tests on the specified release date, please contact the TMSCA state office via email: execsectmsca@gmail.com. Orders for Tournament Tests should be received by the state office at least 2 weeks prior to your meet. Tournament tests will be delivered electronically 7-10 days prior to your meet. **VALID EMAIL ADDRESS REQUIRED.**

STATE OFFICE CONTACT INFO: P.O. BOX 206, OLNEY, TX 76374-0206; PHONE: 940.563.1005; FAX: 940.563.1006

MEMBERSHIP BY SCHOOL CAMPUS REQUIRED FOR ALL SERVICES FROM TMSCA

PART A HIGH SCHOOL PRACTICE MATERIAL

<u>NUMBER SENSE</u>	Test/Pack	Cost/Pack	Amount
(01) TMSCA 10-11 Series	13	\$35	\$ _____
(02) TMSCA 11-12 Series	13	\$35	\$ _____
(03) TMSCA 12-13 Series	14	\$35	\$ _____
(04) TMSCA 13-14 Series	13	\$35	\$ _____

CALCULATOR

(05) TMSCA 10-11 Series	13	\$35	\$ _____
(06) TMSCA 11-12 Series	13	\$35	\$ _____
(07) TMSCA 12-13 Series	14	\$35	\$ _____
(08) TMSCA 13-14 Series	13	\$35	\$ _____
(09) UIL 2009 Series	7	\$35	\$ _____
(10) UIL 2010 Series	7	\$35	\$ _____
(11) UIL 2011 Series	7	\$35	\$ _____
(12) UIL 2012 Series	7	\$35	\$ _____

SCIENCE

(13) TMSCA 10-11 Series	13	\$35	\$ _____
(14) TMSCA 11-12 Series	13	\$35	\$ _____
(15) TMSCA 12-13 Series	14	\$35	\$ _____
(16) TMSCA 13-14 Series	13	\$35	\$ _____

MATHEMATICS

(17) TMSCA 10-11 Series	13	\$35	\$ _____
(18) TMSCA 11-12 Series	13	\$35	\$ _____
(19) TMSCA 12-13 Series	14	\$35	\$ _____
(20) TMSCA 13-14 Series	13	\$35	\$ _____

Subtotal Part A \$ _____

PART B

(21) TMSCA Scantron Forms 500	\$45	\$ _____
Subtotal Part B		\$ _____

PART C

ELEMENTARY PRACTICE MATERIALS INTRODUCTORY PACKAGE

Includes 5 practice tests each of NS, CA, MA, and SC written for grades 3-5 and entry into one EL On-line meet.

(22) TMSCA 13-14 EL Package	\$100	\$ _____
Subtotal Part C		\$ _____

PART D MIDDLE SCHOOL PRACTICE MATERIAL

<u>NUMBER SENSE</u>	Test/Pac	Cost/Pack	Amount
(23) TMSCA 10-11 Series	16	\$35	\$ _____
(24) TMSCA 11-12 Series	16	\$35	\$ _____
(25) TMSCA 12-13 Series	17	\$35	\$ _____
(26) TMSCA 13-14 Series	15	\$35	\$ _____

CALCULATOR

(27) TMSCA 10-11 Series	16	\$35	\$ _____
(28) TMSCA 11-12 Series	16	\$35	\$ _____
(29) TMSCA 12-13 Series	17	\$35	\$ _____
(30) TMSCA 13-14 Series	15	\$35	\$ _____

SCIENCE

(31) TMSCA 10-11 Series	16	\$35	\$ _____
(32) TMSCA 11-12 Series	16	\$35	\$ _____
(33) TMSCA 12-13 Series	17	\$35	\$ _____
(34) TMSCA 13-14 Series	15	\$35	\$ _____

MATHEMATICS

(35) TMSCA 10-11 Series	16	\$35	\$ _____
(36) TMSCA 11-12 Series	17	\$35	\$ _____
(37) TMSCA 12-13 Series	15	\$35	\$ _____
(38) TMSCA 13-14 Series	15	\$35	\$ _____

Subtotal Part D \$ _____

PART E 2013-14 TOURNAMENT TESTS

HIGH SCHOOL release dates (circle one) 10/26 11/2 11/9

11/16 11/23 12/7 1/18 1/25 2/1 2/15 2/22 3/1

(39) HS Number Sense Test	\$50	\$ _____
(40) HS Calculator Test	\$50	\$ _____
(41) HS Science Test	\$50	\$ _____
(42) HS Mathematics Test	\$50	\$ _____

MIDDLE SCHOOL release dates (circle one) 10/26 11/2 11/9

11/16 11/23 12/7 1/18 1/25 2/1 2/8 2/15 2/22 3/1

(43) MS Number Sense Test	\$50	\$ _____
(44) MS Calculator Test	\$50	\$ _____
(45) MS Science Test	\$50	\$ _____
(46) MS Mathematics Test	\$50	\$ _____

Subtotal Part E \$ _____

TOTAL PARTS A, B, C, D, E \$ _____

NOTE ON DELIVERY METHODS:

All tournament tests are delivered electronically. 13-14 Practice Materials will be delivered electronically weekly. 12-13 Practice Materials will be delivered on CD via USPS. All other materials delivered hard copy via USPS.

FOR OFFICE USE ONLY

Order Method: ☐ Email ☐ Fax ☐ Mail Delivery Method: ☐ USPS ☐ Email ☐ Shared File
Date of Delivery: _____ Processed By: _____ Invoiced to: _____ Date: _____

MATERIALS SENT TO: (Please print)

School Name _____ School District _____ School Address _____
School City _____ Phone _____ State _____ ZIP/ZIP4 _____
Sponsor's Name _____ Best Contact Time _____ Date of Tournament _____
Sponsor's email address _____ School Fax _____
Payment made by: (circle one) School Check PO Personal Check ** Tournament Test order confirmation will be sent via email.