

2016 PhysicsBowl Results: Regions 01 – 14

Dear Physics Teachers,

Enclosed are lists of

- the overall top 10 students in each division
- the overall top 5 schools in each division
- the first and second place students in each division by region.
- the top 4 schools in each region by division

Unfortunately, we received answer sheets which did not properly fill in the required information which resulted in the student's score being disqualified for consideration of either individual prizes or for the team score. This is an unfortunate necessity because of the amount of data that must be analyzed. Also, some instructors appear not to have followed the instructions resulting in some students being disqualified. We cannot go and check exams individually to look for errors, so it is up to the proctors and instructors to be sure to follow the instructions.

This year, we are able to award the following prizes:

- To the top 2 overall schools in each Division
 - \$100 gift certificate awarded from Pasco Scientific
- To the top 5 overall schools in each Division:
 - \$100 gift certificate awarded from CPO Science
 - "PhysicsBowl Champion" T-shirts awarded to the five top students from each school from AAPT.
 - A copy of "Problems and Solutions in Intro Mechanics" from Cambridge University Press.
- To the top two scoring schools in each region/division:
 - \$50 gift certificate awarded from Vernier Software & Technology
 - A rattleback from Arbor Scientific.
 - *1st place* school only: Five "PhysicsBowl Champion" T-shirts from AAPT.

All student winners will receive a copy of "Used Math" from AAPT. In addition, student winners receive

- To the top 10 overall students in each Division:
 - A copy of "Problems and Solutions in Intro Mechanics" from Cambridge University Press.
 - Div. 01 only: A copy of "Classical Mechanics" from Cambridge University Press.
 - Div. 02 only: A textbook on E&M from either Cambridge University Press or Pearson.
- To the 1st place student in each Division by Region
 - A book from Princeton University Press.
 - A Mysterious Glowing Ball from Educational Innovations, Inc.
- To the 2nd place student in each Division by Region
 - A Mysterious Glowing Ball from Educational Innovations, Inc.

A copy of this year's test along with solutions, as well as individual and team winners for all regions can be found at the following web site: <http://www.delta.edu/michaelfaleski/PhysicsBowl>

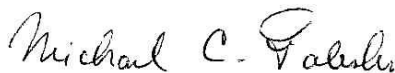


AAPT PHYSICSBOWL 2016
PHYSICS EDUCATION

We, again, had the good fortune of having many wonderful sponsors again this year. We hope to continue our relationship with these companies in the future. One way to ensure that this happens is for teachers to send thank you's to the companies when ordering materials and to use the gift certificates provided. We hope that you use your certificates to help your physics program in the coming years.

Instructors can obtain the scores of their students from the AAPT website and that link will be provided to you in an email from the national office. Please realize that we were able to retrieve some scores that were disqualified for improperly recording the required information, but this was done after-the-fact. If the information was not encoded correctly, the student was immediately disqualified from winning prizes even though we may be able to link that student to your code now. Some students provided no codes, the wrong regions, no name, just a last name, etc. There are a lot of records and we cannot go back and fill in missing information. While it is unfortunate to disqualify anyone, these are the rules of the contest. Sadly, some very high scores were disqualified. If you still are missing a student's score... please email jlane@aapt.org with student information (CEEB, teacher codes, etc.) and we can try to find the information.

We will, as always, be trying to improve the contest and we look forward to your participation in 2017.



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TOP TEN OVERALL DIVISION 1 SCORES: Regions 01 – 14

<u>#</u>	<u>Reg</u>	<u>Score</u>	<u>Student</u>	<u>School</u>	<u>City</u>	<u>State</u>
1	13	36	CHEN, PHIL	University HS - Irvine	Irvine	CA
2	02	36	XU, YUHENG	Olympiads School	North York	ON
3	12	35	ARRIETA, ANDREW	Palos Verdes Peninsula HS	Palos Verdes Pen	CA
4	01	35	VITTALA, AADITH	Thomas Jefferson HS for Science and Tech	Alexandria	VA
5	06	35	MANSOUR, OMAR	Mentor HS	Mentor	OH
6	10	34	MERCHANT, SOPHIE	Hutchison School	Memphis	TN
7	04	34	SOTNICK, ELLIOT	Millburn High School	Millburn	NJ
8	04	34	SUN, MORGAN	Millburn High School	Millburn	NJ
9	13	33	MENG, SEAN	SpringLight Education Institute	San Jose	CA
10	01	33	KIM, HYEONGMIN	Bergen County Academies	Hackensack	NJ

TOP TEN OVERALL DIVISION 2 SCORES: Regions 01 – 14

<u>#</u>	<u>Reg</u>	<u>Score</u>	<u>Student</u>	<u>School</u>	<u>City</u>	<u>State</u>
1	08	40	LU, JASON	Adlai Stevenson HS	Lincolnshire	IL
2	02	39	ZHENG, GUO	Olympiads School	North York	ON
3	13	38	HUANG, JONATHAN	University HS - Irvine	Irvine	CA
4	13	34	SUN, YUNYANG	University HS - Irvine	Irvine	CA
5	09	34	DOMAN, JOSH	Westminster Schools	Atlanta	GA
6	02	34	LIU, STEPHEN	Bayview Secondary School	Toronto	ON
7	12	34	CHEN, KEVIN	The Bishop's School	La Jolla	CA
8	02	34	XIONG, RUIMING	Western Canada HS	Calgary	AB
9	07	33	GAO, JERRY	Troy High School	Troy	MI
10	11	32	NAGVEKAR, RAHUL	John Foster Dulles High School	Sugar Land	TX

Note: Ranking for tied scores is based on the tiebreaker rules... scoring from the end of the test to the front. All ties were broken.

Note: These students are recognized as “overall” winners and are removed from the regional winners pool.

Top Two Highest Scoring *Division 1* Students in each Region

<u>Reg</u>	<u>Score</u>	<u>Student</u>	<u>School</u>	<u>State</u>
01	33	MYERS, BECKHAM	School For The Talented And Gifted	TX
01	30	WANG, FRANKLYN	Thomas Jefferson HS for Science and Tech	VA
02	33*	MO, GEORGE	Bayview Secondary School	ON
02	33	ZHANG, WALEY	New Westminster Secondary Sc	BC
03	31	WEI, SANSEN	Christian Heritage School	CT
03	30	DARROW, DAVID	Hopkins School	CT
04	33	KAU, AARON	John P Stevens High School	NJ
04	32	BACK, SUNG HYUN	Northern Valley Old Tappan	NJ
05	33	QI, LUKE	Fayetteville-Manlius HS	NY
05	31*	YANG, MELODY	Great Neck South HS	NY
06	32	GU, ANDREW	Pittsburgh Allderdice HS	PA
06	30	MALIK, RAGHAV	Mentor HS	OH
07	31	OU, ANTHONY	Carmel High School	IN
07	30	BHATTACHARYYA, SWAGAT	Morgantown High School	WV
08	32	BAUMANN, ZAKARY	Vernon Hills High School	IL
08	31	KOKKINES, MICHAEL	Vernon Hills High School	IL
09	28	BAEK, SEREYM	Walton High School	GA
09	27*	MORI, HIDE TO	Walton High School	GA
10	31	SANAT, MEHTA	Arapahoe High School	CO
10	28	BRABEC, COLE	Olathe Northwest High School	KS
11	28	VO, KOBE M	Saint Mary's Hall School	TX
11	27*	MOELLER, ANTHONY	Martin High School	TX
12	30	KIM, NATHANIEL	Palos Verdes Peninsula HS	CA
12	30	LI, RAYMOND	San Diego Math Circle	CA
13	32	LU, DAVID	University HS - Irvine	CA
13	31*	GUO, MATTHEW	SpringLight Education Institute	CA
14	32	GOEL, GOPAL K	Krishna Home School	OR
14	29*	LU, FRANK	Minnetonka High School	MN

Top Two Highest Scoring *Division 2* Students in each Region

<u>Reg</u>	<u>Score</u>	<u>Student</u>	<u>School</u>	<u>State</u>
01	31	WANG, CHARLES	Thomas Jefferson HS for Science and Tech	VA
01	30	CHENG, ALLEN	Thomas Jefferson HS for Science and Tech	VA
02	30	MAI, STEVEN	Olympiads School	ON
02	29*	CARDOZA, CHRIS	Victoria Park Collegiate Institute	ON
03	32	HACKETT, SEAN	Guilford High School	CT
03	26	CHEN, AUSTIN	Avon High School	CT
04	32	YANG, YANJUN	Millburn High School	NJ
04	31	JIAO, WILLIAM	West Windsor - Plainsboro HS - South	NJ
05	31	AN, SEUNGHWAN	Olympiad Academia	NY
05	30	LO, CHIU FAN BOWEN	Jericho High School	NY
06	31	MANDAVA, GUNASHEIL	North Allegheny Senior HS	PA
06	26	RUFFOLO, RUSSELL	North Allegheny Senior HS	PA
07	30*	FEI, NATHAN	Carmel High School	IN
07	30	STANESCU, ALEXANDRU	Morgantown High School	WV
08	30	METZGER, ERIC	Libertyville High School	IL
08	29*	DEMICHELE, PATRICK	Adlai Stevenson High School	IL
09	31	ZHENG, GEOFFREY	Lincoln Park Academy	FL
09	30	ZHOU, IRENE	Northview High School	GA
10	31	COWSIK, ADITYA	Clayton High School	MO
10	27	LAWSON, LIAM	BASIS Chandler	AZ
11	31	BALAJI, SHREYAS	John Foster Dulles High School	TX
11	31*	PATEL, AMAN	John Foster Dulles High School	TX
12	30	ALUMOOTIL, VARKEY	San Diego Math Circle	CA
12	30	QU, JERRY	The Bishop's School	CA
13	32	JHA, SAAGAR	Monta Vista High School	CA
13	31*	BHATTARAM, KRISHNAKUMAR	SpringLight Education Institute	CA
14	31	LONGENECKER, DANIEL	Kuwait English School	Kuwait
14	29	FOSBINDER-ELKINS, HARRY	Davidson Academy of Nevada	NV

**TOP FIVE OVERALL DIVISION 1 TEAM SCORES:
Regions 01 – 14**

<u>#</u>	<u>Reg</u>	<u>Score</u>	<u>School</u>	<u>City</u>	<u>State</u>
1	13	<i>159</i>	University HS - Irvine	Irvine	CA
2	04	<i>159</i>	Millburn High School	Millburn	NJ
3	13	<i>153</i>	SpringLight Education Institute	San Jose	CA
4	08	<i>150</i>	Vernon Hills High School	Vernon Hills	IL
5	02	<i>146</i>	Bayview Secondary School	Toronto	ON

**TOP FIVE OVERALL DIVISION 2 TEAM SCORES:
Regions 01 – 14**

<u>#</u>	<u>Reg</u>	<u>Score</u>	<u>School</u>	<u>City</u>	<u>State</u>
1	13	<i>151</i>	University HS - Irvine	Irvine	CA
2	11	<i>151</i>	John Foster Dulles HS	Sugar Land	TX
3	08	<i>138</i>	Libertyville High School	Libertyville	IL
4	02	<i>134</i>	Victoria Park Collegiate Inst.	Toronto	ON
5	07	<i>133</i>	Carmel High School	Carmel	IN

Note: The team tie-break (*) is that the tie goes to the school with the highest scoring student.

Note: These schools are recognized as “overall” winners for each Division and are removed from that Division’s regional winners pool.

Top 4 schools in each Region by Division

The columns are "Rank," "Score," "School," "Location"

Yellow indicates First Place winner

Blue indicates Second Place winner

Green indicates highest scoring non top 2 winner!

Top 5 overall schools are removed from the Regional competition

REGION 01

DIV 1				DIV 2			
1	145	Thomas Jefferson HS for Science and Tech	VA	1	119	Bergen County Academies	NJ
2	139	Montgomery Blair High School	MD	2	111	Montgomery Blair High School	MD
3	127	Bergen County Academies	NJ	3	106	Stuyvesant High School	NY
4	121	School For The Talented And Gifted	TX	4	100*	Thomas Jefferson HS for Science and Tech	VA

REGION 02

DIV 1				DIV 2			
1	135	New Westminster Secondary School	BC	1	129	Western Canada HS	AB
2	133	Olympiads School	ON	2	112	Ay Jackson Secondary School	ON
3	95	Victoria Park Collegiate Institute	ON	3	111	Olympiads School	ON
4	91	University Of Toronto Schools	ON	4	97	Westdale Secondary School	ON

REGION 03

DIV 1				DIV 2			
1	116	Hopkins School	CT	1	116	Guilford High School	CT
2	113	The Bromfield School	MA	2	113	New Canaan High School	CT
3	113	New Canaan High School	CT	3	100	Branford High School	CT
4	93	Branford High School	CT	4	99	Academy of Aerospace and Engineering	CT

REGION 04

DIV 1				DIV 2			
1	137	West Windsor - Plainsboro HS - South	NJ	1	129	Millburn High School	NJ
2	131	John P Stevens High School	NJ	2	120	West Windsor - Plainsboro HS - South	NJ
3	128	Union County Magnet High School	NJ	3	115	Manalapan High School	NJ
4	124	Northern Valley Old Tappan	NJ	4	108	Union County Magnet High School	NJ

REGION 05

DIV 1				DIV 2			
1	139	Fayetteville-Manlius HS	NY	1	106	Centennial High School	MD
2	134	Great Neck South HS	NY	2	99	Walt Whitman High School	MD
3	134	Brown Academy	NY	3	99	Poolesville High School	MD
4	129	Stony Brook University	NY	4	93	St Anthony High School	NY

REGION 06

DIV 1				DIV 2			
1	125	Mentor HS	OH	1	117	North Allegheny Senior High School	PA
2	115	Pittsburgh Allderdice High School	PA	2	101	Beavercreek High School	OH
3	108	North Allegheny Senior High School	PA	3	98	Hawken School	OH
4	106	Beachwood High School	OH	4	96	Dallastown Area High School	PA

REGION 07

DIV 1				DIV 2			
1	124	ICAE	MI	1	112	Detroit Country Day High School	MI
2	123	Langley High School	VA	2	99	Morgantown High School	WV
3	122	Morgantown High School	WV	3	98	Troy High School	MI
4	113	Park Tudor School	IN	4	89	East Lansing HS	MI

REGION 08

DIV 1				DIV 2			
1	<i>133</i>	Libertyville High School	IL	1	<i>131</i>	Adlai Stevenson High School	IL
2	<i>107</i>	Carbondale Community High School	IL	2	<i>126</i>	Vernon Hills High School	IL
3	<i>104</i>	Maine South High School	IL	3	<i>99</i>	West High School	WI
4	<i>104</i>	New Trier Township High School District 203	IL	4	<i>92*</i>	Marshfield High School	WI

REGION 09

DIV 1				DIV 2			
1	<i>126</i>	Walton High School	GA	1	<i>126</i>	Northview High School	GA
2	<i>105</i>	West Shore Jr/Sr HS	FL	2	<i>113</i>	Cypress Bay High	FL
3	<i>103</i>	Suncoast HS	FL	3	<i>112</i>	Suncoast HS	FL
4	<i>101</i>	Westminster Schools	GA	4	<i>109</i>	Coral Glades High School	FL

REGION 10

DIV 1				DIV 2			
1	<i>108</i>	Montgomery Bell Academy	TN	1	<i>128</i>	Clayton High School	MO
2	<i>103</i>	John Burroughs School	MO	2	<i>103</i>	Memphis Univ School	TN
3	<i>103</i>	White Station High School	TN	3	<i>99</i>	BASIS Chandler	AZ
4	<i>101</i>	Oak Ridge High School	TN	4	<i>94</i>	White Station High School	TN

REGION 11

DIV 1				DIV 2			
1	<i>124</i>	John Foster Dulles High School	TX	1	<i>94</i>	Martin High School	TX
2	<i>105</i>	Saint Mary's Hall School	TX	2	<i>92</i>	Allen High School	TX
3	<i>103</i>	Jesuit College Preparatory School Of Dallas	TX	3	<i>91</i>	Round Rock High School	TX
4	<i>102</i>	Round Rock High School	TX	4	<i>83</i>	Clear Brook HS	TX

REGION 12

DIV 1				DIV 2			
1	<i>134</i>	Palos Verdes Peninsula High School	CA	1	<i>131</i>	San Diego Math Circle	CA
2	<i>123</i>	San Diego Math Circle	CA	2	<i>128</i>	Arcadia High School	CA
3	<i>101</i>	Diamond Bar High School	CA	3	<i>124</i>	The Bishop's School	CA
4	<i>89</i>	Arcadia High School	CA	4	<i>99</i>	Palos Verdes Peninsula High School	CA

REGION 13

DIV 1				DIV 2			
1	<i>141</i>	Saratoga High School	CA	1	<i>124</i>	Saratoga High School	CA
2	<i>136</i>	Monta Vista High School	CA	2	<i>122</i>	The Harker School	CA
3	<i>112</i>	Stevenson School	CA	3	<i>120</i>	Monta Vista High School	CA
4	<i>107</i>	Stanford OHS	CA	4	<i>119</i>	Stanford OHS	CA

REGION 14

DIV 1				DIV 2			
1	<i>118</i>	Korea International School	Korea	1	<i>110</i>	Interlake HS	WA
2	<i>117</i>	Minnetonka High School	MN	2	<i>104</i>	Davidson Academy of Nevada	NV
3	<i>115</i>	Logan High School	UT	3	<i>103</i>	Kuwait English School	Kuwait
4	<i>112</i>	Radley College	UK	4	<i>94</i>	Saint John's Prep School	MN