

## 2018 PhysicsBowl Results: Regions 00 – 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 many 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 overall school in each Division
  - \$100 gift certificate awarded from Pasco Scientific
- To the top 5 overall schools in each Division:
  - \$50 gift certificate awarded from Vernier Software & Technology
  - "PhysicsBowl Champion" T-shirts awarded to the five top students from each school from AAPT.
- To the top two scoring schools in each region/division:
  - \$50 gift certificate awarded from Vernier Software & Technology
  - A rattleback from Arbor Scientific.
  - "PhysicsBowl Champion" T-shirts awarded to the five top students from the *1<sup>st</sup>* place school in each region 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 "Special Relativity" from Cambridge University Press.
- To the 1<sup>st</sup> place student in each Division by Region
  - A copy of "Problems and Solutions" from Cambridge University Press.
  - A Mysterious Glowing Ball from Educational Innovations, Inc.
- To the 2<sup>nd</sup> place student in each Division by Region
  - A copy of "Mad About Physics" from John Wiley & Sons.

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://aapt.org/Programs/PhysicsBowl/currentexam.cfm>



# AAPT PHYSICSBOWL 2018

We 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](mailto: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 2019.



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**TOP TEN OVERALL DIVISION 1 SCORES: Regions 00 – 14**

RANK	REGION	SCORE	FIRST NAME	LAST NAME	SCHOOL	STATE/PROV.
1	04	39*	VICTOR	ZHANG	GAUSS SCHOOL OF MATH AND SCIENCE	NJ
2	00	39*	ZACHARY	DENG	SPRINGLIGHT EDUCATION INSTITUTE	CA
3	00	39	PATRICK	LIU	SPRINGLIGHT EDUCATION INSTITUTE	CA
4	13	38*	JEFFREY	TAO	LYNBROOK HIGH SCHOOL	CA
5	11	38*	ZEESHAWN	WANI	DEBAKEY HIGH SCHOOL	TX
6	13	38	JOSEPH	LI	SARATOGA HIGH SCHOOL	CA
7	14	37*	VEDANTHA	VENKATAPATHY	TESLA STEM HIGH SCHOOL	WA
8	00	37*	SEAN	CHEN	SAN DIEGO MATH CIRCLE @ UCSD	CA
9	00	37	DANIEL	WANG	SPRINGLIGHT EDUCATION INSTITUTE	CA
10	02	36	ZHI YANG	CHEN	VICTORIA PARK COLLEGIATE INSTITUTE	ON

**TOP TEN OVERALL DIVISION 2 SCORES: Regions 00 – 14**

RANK	REGION	SCORE	FIRST NAME	LAST NAME	SCHOOL	STATE/PROV.
1	03	40	JASON	LIU	STAMFORD POLYTECHNIC	CT
2	13	39*	PHIL	CHEN	UNIVERSITY HS - IRVINE	CA
3	11	39*	JOSEPH	MCCARTY	LUBBOCK HIGH SCHOOL	TX
4	03	39	KESHAV	VEDULA	ACADEMY OF AEROSPACE/ENGINEERING	CT
5	00	38*	RAYMOND	LI	SAN DIEGO MATH CIRCLE @ UCSD	CA
6	03	38*	HAOYANG	FAN	THE GOVERNOR'S ACADEMY	MA
7	04	38*	DANIELQ	CHENG	WEST WINDSOR - PLAINSBORO HIGH SCHOOL SOUTH	NJ
8	13	38*	KRISHNAKUMAR	BHATTARAM	LYNBROOK HIGH SCHOOL	CA
9	04	38	SHANNON	WENG	WEST WINDSOR - PLAINSBORO HIGH SCHOOL SOUTH	NJ
10	02	37	HENRY	TANG	OLYMPIADS SCHOOL	ON

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

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

REGION	SCORE	FIRST NAME	LAST NAME	SCHOOL	STATE/PROV.
00	35	WILLIAM	CAI	BROWN ACADEMY	NY
00	34	KECHENG	YI	ZENITH REVIEW	CA
01	35	SATYA	HOLLA	SCIENCE ACADEMY OF SOUTH TX	TX
01	33	SUNAY	JOSHI	BERGEN COUNTY ACADEMIES	NJ
02	35	Raymond	Zhou	University Of Toronto Schools	ON
02	34	Albert	Cheng	University Of Toronto Schools	ON
03	35	NICHOLAS	PEREZ	STAMFORD POLYTECHNIC	CT
03	33	BRIAN	LUNTZ	STAMFORD POLYTECHNIC	CT
04	36	WAYNE	ZHAONN	BRIDGEWATER RARITAN HS	NJ
04	35	ARNOLD	JIA	MILLBURN HIGH SCHOOL	NJ
05	34	JOSEPH	YOO	MANHASSET HIGH SCHOOL	NY
05	31	NATHAN	MOLINARI	BRONX ENGINEERING AND TECHNOLOGY ACADEMY	NY
06	33	DAVID	BAN	NORTH ALLEGHENY SENIOR HIGH SCHOOL	PA
06	29	TOMER	SHAMIR	NORTH ALLEGHENY SENIOR HIGH SCHOOL	PA
07	31	YUEZE	LIU	CARMEL HIGH SCHOOL	IN
07	29*	KEVIN	ZHOU	TROY HIGH SCHOOL	MI
08	33*	JAKE	DUFFY	Libertyville High School	IL
08	33	JEFFREY	ZHANG	Vernon Hills High School	IL
09	35	ALBERT	ZHANG	NORTHVIEW HIGH SCHOOL	GA
09	34*	ETHAN	DAVIS	American Heritage School of Boca/Delray	FL
10	34	DAVID	JOY	OAK RIDGE HIGH SCHOOL	TN
10	31*	ALAN	ABRAHAM	BLUE VALLEY WEST HIGH SCHOOL	KS
11	36*	SAHIL	BOLAR	PLANO WEST SENIOR HIGH SCHOOL	TX
11	36	AKHIL	SADAM	AUSTIN AREA HOMESCHOOLERS	TX
12	34	KEVIN	CAI	TEMPLE CITY HS	CA
12	33	KAREN	LIU	WALNUT HIGH SCHOOL	CA
13	36	Milan	Ganai	Lynbrook High School	CA
13	35*	NEVIN	LIANG	Saratoga High School	CA
14	34	Ahmet	Yesevi	Kultur Science High School	Turkey
14	33	Bora	Yesil	Kultur Science High School	Turkey

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

REGION	SCORE	FIRST NAME	LAST NAME	SCHOOL	STATE/PROV.
00	35	YUHENG	XUU	Ivy Path School	ON
00	34	TIMOTHY	WU	ICAE	MI
01	34*	Hyeongmin	Kim	Bergen County Academies	NJ
01	34*	GEORGE	WANG	Oklahoma School of Science and Math	OK
02	36	Felix	Yu	Crescent School	ON
02	35	Richard	Zhu	Bayview Secondary School	ON
03	36	Phum	Siriviboon	Kent School	CT
03	32*	ALEXANDER	KUCHER	Stamford Polytechnic	CT
04	35	Zeqing	Li	Princeton Intl Sch of Math and Science	NJ
04	34	Soumil	Mukherjee	West Windsor - Plainsboro High School N	NJ
05	34	YUHAN	LIU	GREAT NECK SOUTH HIGH SCHOOL	NY
05	33	CHIU FAN BOWEN	LO	JERICO HIGH SCHOOL	NY
06	33	GRANT	JIANG	NORTH ALLEGHENY SENIOR HIGH SCHOOL	PA
06	32	LEE	CHRISTOPHER	NORTH ALLEGHENY SENIOR HIGH SCHOOL	PA
07	36	KEVIN	LIU	CARMEL HIGH SCHOOL	IN
07	35	ANTHONY	OU	CARMEL HIGH SCHOOL	IN
08	33*	DYLAN	HU	ADLAI STEVENSON HIGH SCHOOL	IL
08	33	DANIEL	KAPUTA	LIBERTYVILLE HIGH SCHOOL	IL
09	34*	LIFU	ZHANG	American Heritage Sch of Boca/Delray	FL
09	34*	BRETT	ELLENBOGEN	Coral Glades High School	FL
10	34	CHANG	YU	MEMPHIS UNIV SCHOOL	TN
10	33	TANUJ	ALAPATI	RANDOLPH SCHOOL	AL
11	36	ETHAN	ZAHID	JOHN FOSTER DULLES HIGH SCHOOL	TX
11	35*	JERRY	HAN	THE VILLAGE SCHOOL	TX
12	35	OCEAN	ZHOU	OLYMPIAN HIGH SCHOOL	CA
12	34	JEREMY	MCCULLOCH	FRANCIS W PARKER SCHOOL	CA
13	36*	Joey	Zhu	California High School	CA
13	36*	Andrew	Lin	Lynbrook High School	CA
14	34	DANIEL	SUN	INTERLAKE HS	WA
14	33	JAE	KIM	KOREA INTERNATIONAL SCHOOL	



# AAPT PHYSICS BOWL 2018

PHYSICS EDUCATION

## TOP FIVE OVERALL DIVISION 1 TEAM SCORES: Regions 00 – 14

RANK	REGION	SCORE	SCHOOL	STATE/PROV.
1	00	179	SPRINGLIGHT EDUCATION INSTITUTE	CA
2	13	175	SARATOGA HIGH SCHOOL	CA
3	04	167	GAUSS SCHOOL OF MATH AND SCIENCE	NJ
4	04	167	MILLBURN HIGH SCHOOL	NJ
5	13	166	UNIVERSITY HS - IRVINE	CA

## TOP FIVE OVERALL DIVISION 2 TEAM SCORES: Regions 00 – 14

RANK	REGION	SCORE	SCHOOL	STATE/PROV.
1	04	171	WEST WINDSOR - PLAINSBORO HIGH SCHOOL SOUTH	NJ
2	07	165	CARMEL HIGH SCHOOL	IN
3	11	164	JOHN FOSTER DULLES HIGH SCHOOL	TX
4	13	163	LYNBROOK HIGH SCHOOL	CA
5	01	156	MONTGOMERY BLAIR HIGH SCHOOL	MD

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

Top 5 overall schools are removed from the Regional competition

### REGION 00

DIV 1				DIV 2			
1	151	Brown Academy	NY	1	153	San Diego Math Circle @ UCSD	CA
2	146	San Diego Math Circle @ UCSD	CA	2	113	ICAE	MI
3	134	Ivy Path School	ON	3	82	Edina Center For Academic Excellence	MN
4	115	Yu's Elite Education	NJ	4	67	Ivy Path School	ON

### REGION 01

DIV 1				DIV 2			
1	136	Thomas Jefferson HS for Science and Tech	VA	1	152	Oklahoma School of Science and Math	OK
2	135	Bergen County Academies	NJ	2	135	Bergen County Academies	NJ
3	133	School For The Talented And Gifted	TX	3	131	Union County Magnet High School	NJ
4	127	Science Academy of South TX	TX	4	123	Science Academy of South TX	TX

### REGION 02

DIV 1				DIV 2			
1	158	University Of Toronto Schools	ON	1	142	University Of Toronto Schools	ON
2	152	Marc Garneau C.I.	ON	2	133	Bayview Secondary School	ON
3	142	Victoria Park Collegiate Institute	ON	3	131	Western Canada High School	AB
4	138	Olympiads School	ON	4	130	Ay Jackson Secondary School	ON

### REGION 03

DIV 1				DIV 2			
1	161	Stamford Polytechnic	CT	1	134	Guilford High School	CT
2	128	Guilford High School	CT	2	132	Academy of Aerospace/Engineering	CT
3	123	New Canaan High School	CT	3	129	Newtown High School	CT
4	122	Middlesex School	MA	4	119	Kent School	CT

### REGION 04

DIV 1				DIV 2			
1	149	West Windsor - Plainsboro High School N	NJ	1	142	Millburn High School	NJ
2	131	West Windsor - Plainsboro High School South	NJ	2	120	Bergen County Technical High School	NJ
3	123	Ridgewood High School	NJ	3	119	Princeton High School	NJ
4	116	Princeton International School of Math and Science	NJ	4	117	Bridgewater Raritan HS	NJ

### REGION 05

DIV 1				DIV 2			
1	134	Bronx Engineering and Technology Academy	NY	1	134	Great Neck South High School	NY
2	133	Stuyvesant High School	NY	2	123	Smithtown High School	NY
3	121	Manhasset High School	NY	3	113	Manhasset High School	NY
4	118	Herricks High School	NY	4	103	Irondequoit High School	NY

### REGION 06

DIV 1				DIV 2			
1	143	North Allegheny Senior High School	PA	1	151	North Allegheny Senior High School	PA
2	111	St Vincent St Mary High School	OH	2	109	Dallastown Area High School	PA
3	109	Henderson High School	PA	3	99	St Vincent St Mary High School	OH
4	104	Dallastown Area High School	PA	4	87	Henderson High School	PA

### REGION 07

DIV 1				DIV 2			
1	125	Morgantown High School	WV	1	138	Morgantown High School	WV
2	112	Bedford High School - Temperance, MI	MI	2	132	Troy High School	MI
3	109	Woodberry Forest School	VA	3	131	East Lansing HS	MI
4	98	St. Anne's-Belfield School	VA	4	102	Flint Hill School	VA



## REGION 08

DIV 1				DIV 2			
1	152	Vernon Hills High School	IL	1	145	Adlai Stevenson High School	IL
2	135	Libertyville High School	IL	2	141	Libertyville High School	IL
3	118	Carbondale Community High School	IL	3	132	Arrowhead Union HS	WI
4	97	Maine South High School	IL	4	132	Vernon Hills High School	IL

## REGION 09

DIV 1				DIV 2			
1	165	American Heritage School of Boca/Delray	FL	1	156	American Heritage School	FL
2	156	Northview High School	GA	2	156	American Heritage School of Boca/Delray	FL
3	147	Buchholz High School	FL	3	151	Buchholz High School	FL
4	141	American Heritage School	FL	4	150	Coral Glades High School	FL

## REGION 10

DIV 1				DIV 2			
1	135	Oak Ridge High School	TN	1	135	Clayton High School	MO
2	135	Westminster Christian Academy	MO	2	124	Memphis Univ School	TN
3	128	Baton Rouge Magnet High School	LA	3	107	Oak Ridge High School	TN
4	125	John Burroughs School	MO	4	107	Randolph School	AL

## REGION 11

DIV 1				DIV 2			
1	153	Debakey High School	TX	1	128	Lubbock High School	TX
2	151	Plano West Senior High School	TX	2	116	Amarillo High School	TX
3	142	St Mark's School of Texas	TX	3	114	Glenda Dawson High School	TX
4	114	Austin Area Homeschoolers	TX	4	82	Round Rock High School	TX

## REGION 12

DIV 1				DIV 2			
1	142	Palos Verdes Peninsula High School	CA	1	125	Palos Verdes Peninsula High School	CA
2	129	Diamond Bar High School	CA	2	118	Francis W Parker School	CA
3	125	Walnut High School	CA	3	107	Diamond Bar High School	CA
4	115	La Canada High School	CA	4	101	The Bishop'S School	CA



# AAPT PHYSICSBOWL 2018

## REGION 13

DIV 1				DIV 2			
1	164	Lynbrook High School	CA	1	145	University HS - Irvine	CA
2	151	Monta Vista H.S.	CA	2	142	Monta Vista H.S.	CA
3	137	Valley Christian School	CA	3	132	Arnold O. Beckman High School	CA
4	136	American High School	CA	4	129	The Harker School	CA

## REGION 14

DIV 1				DIV 2			
1	165	Kultur Science High School	Turkey	1	135	Interlake HS	WA
2	139	Philippine Science High School - Main Campus	Metro Manila	2	130	Punahou School	HI
3	135	United World College of South East Asia	Singapore	3	127	Pui Ching Middle School	CHINA
4	133	Philippine Science High School - Central Visayas Campus		4	122	Philippine Science High School - Main Campus	Metro Manila