

## 2019 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. This 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>

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” notes 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 again in 2020.

Sincerely,



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

| RANK | REGION | SCORE | FIRST NAME | LAST NAME    | SCHOOL                             | PROVINCE/STATE |
|------|--------|-------|------------|--------------|------------------------------------|----------------|
| 1    | 00     | 37    | Chris      | Lee          | Olympiad Academia                  | NY             |
| 2    | 04     | 37    | Alvin      | Peng         | Gauss School of Math and Science   | NJ             |
| 3    | 13     | 36    | Jeffrey    | Xu           | Saratoga High School               | CA             |
| 4    | 02     | 35    | Ethan      | Hu           | Marc Garneau C.I.                  | ON             |
| 5    | 13     | 35    | Milan      | Ganai        | Lynbrook HS                        | CA             |
| 6    | 14     | 35    | Vedantha   | Venkatapathy | Bellevue College North Campus      | WA             |
| 7    | 02     | 35    | Zhi Yang   | Chen         | Victoria Park Collegiate Institute | ON             |
| 8    | 04     | 35    | Adith      | Sundram      | Gauss School of Math and Science   | NJ             |
| 9    | 03     | 35    | Vincent    | Xu           | Darien High School                 | CT             |
| 10   | 02     | 35    | Henry      | Guo          | Ay Jackson Secondary School        | ON             |

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

| RANK | REGION | SCORE | FIRST NAME | LAST NAME | SCHOOL                          | PROVINCE/STATE |
|------|--------|-------|------------|-----------|---------------------------------|----------------|
| 1    | 14     | 39    | Michael    | Liu       |                                 | MN             |
| 2    | 00     | 38    | Zachary    | Deng      | SpringLight Education Institute | CA             |
| 3    | 11     | 37    | Andrew     | Liu       | John Foster Dulles High School  | TX             |
| 4    | 00     | 37    | Patrick    | Liu       | SpringLight Education Institute | CA             |
| 5    | 08     | 37    | Jason      | Gu        | Naperville North High School    | IL             |
| 6    | 08     | 37    | Geoffrey   | Wu        | Naperville North High School    | IL             |
| 7    | 01     | 36    | Satya      | Holla     | Science Academy of South TX     | TX             |
| 8    | 12     | 36    | Bingxu     | Meng      | Diamond Bar High School         | CA             |
| 9    | 07     | 36    | Kevin      | Liu       | Carmel High School              | IN             |
| 10   | 13     | 35    | Joseph     | Li        | Saratoga High School            | CA             |

**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                                   | PROVINCE/STATE |
|--------|-------|------------|-------------|--|----------------|
| 00     | 33    | TAEYANG    | PARK        | Olympiad Academia                        | NY             |
| 00     | 32    | SEOEONG    | KWAG        | Olympiad Academia                        | NY             |
| 01     | 31    | David      | Chiidchi    | Science Academy of South TX              | TX             |
| 01     | 27    | Daniel     | Yuan        | Montgomery Blair High School             | MD             |
| 02     | 34    | Jerry      | Jiao        | Olympiads School                         | ON             |
| 02     | 33    | Daniel     | Yang        | Olympiads School                         | ON             |
| 03     | 33    | Benjamin   | Wan         | Stamford Polytechnic                     | CT             |
| 03     | 31    | Walden     | Yan         | Avon High School                         | CT             |
| 04     | 33    | Ian        | Wang        | Gauss School of Math and Science         | NJ             |
| 04     | 32    | Alan       | Hsu         | Gauss School of Math and Science         | NJ             |
| 05     | 27    | Yuehan     | Wu          | Aquinas Institute of Rochester           | NY             |
| 05     | 27    | Izzy       | Lerman      | North Shore High School                  | NY             |
| 06     | 29    | Yang       | Yunfan      | The Miami Valley School                  | OH             |
| 06     | 25    | Thomas     | Brusilovsky | Pittsburgh Allderdice High School        | PA             |
| 07     | 32    | Alex       | Xu          | Troy High School                         | MI             |
| 07     | 27    | Sachin     | Thaker      | Morgantown High School                   | WV             |
| 08     | 27    | John       | He          | Libertyville High School                 | IL             |
| 08     | 25    | Bailey     | Latka       | Libertyville High School                 | IL             |
| 09     | 31    | Samuel     | Cohen       | Buchholz High School                     | FL             |
| 09     | 28    | Frank      | Sacco       | American Heritage School of Boca/Delray  | FL             |
| 10     | 26    | Kevin      | Cao         | White Station High School                | TN             |
| 10     | 25    | Dylan      | Campbell    | Millennium High School                   | AZ             |
| 11     | 30    | Naveen     | Mukkatt     | John Foster Dulles High School           | TX             |
| 11     | 27    | Sribbb     | Devulapalli | Carnegie Vanguard High School            | TX             |
| 12     | 32    | Aksh       | Garg        | Palos Verdes Peninsula HS                | CA             |
| 12     | 31    | Ethan      | Lu          | Arcadia High School                      | CA             |
| 13     | 33    | Rohan      | Kumar       | Saratoga High School                     | CA             |
| 13     | 30    | Neeraj     | Rattehalli  | Menlo Atherton High School               | CA             |
| 14     | 31    | Hai Linh   | Nguyen      | National Mathematics and Science College | England        |
| 14     | 27    | Ryan       | Thammakhoun | Sunset High School                       | OR             |

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

| REGION | SCORE | FIRST NAME | LAST NAME  | SCHOOL                               | PROVINCE/STATE |
|--------|-------|------------|------------|--------------------------------------|----------------|
| 00     | 35    | Minki      | Shimz      | Olympiad Academia                    | NY             |
| 00     | 33    | Yi Won     | Kim        | Olympiad Academia                    | NY             |
|        |       |            |            |                                      |                |
| 01     | 30    | Miles      | Cua        | Science Academy of South TX          | TX             |
| 01     | 29    | Sunay      | Joshi      | Bergen County Academies              | NJ             |
|        |       |            |            |                                      |                |
| 02     | 34    | Henry      | Tang       | Marc Garneau C.I.                    | ON             |
| 02     | 34    | Felix      | Yu         | The Crescent School                  | ON             |
|        |       |            |            |                                      |                |
| 03     | 29    | Gregory    | Zelevinsky | Sharon High School                   | MA             |
| 03     | 26    | Jeremiah   | DeGreeff   | Middlesex School                     | MA             |
|        |       |            |            |                                      |                |
| 04     | 33    | Eddie      | Chen       | West Windsor Plainsboro HS North     | NJ             |
| 04     | 33    | Leo        | Yao        | West Windsor Plainsboro HS North     | NJ             |
|        |       |            |            |                                      |                |
| 05     | 31    | David      | Wendt      | Island Trees High School             | NY             |
| 05     | 28    | Bowen      | Xiang      | T.S. Wootton High School             | MD             |
|        |       |            |            |                                      |                |
| 06     | 27    | Alex       | Wang       | Columbus Academy                     | OH             |
| 06     | 23    | David      | Wang       | Conestoga High School                | PA             |
|        |       |            |            |                                      |                |
| 07     | 30    | Zhiqi      | Liu        | St. Anne's-Belfield School           | VA             |
| 07     | 30    | Jerry      | Liu        | St. Anne's-Belfield School           | VA             |
|        |       |            |            |                                      |                |
| 08     | 33    | Shenghua   | Liu        | Rockford Christian High School       | IL             |
| 08     | 31    | Suhaas     | Bhat       | Marshfield High School               | WI             |
|        |       |            |            |                                      |                |
| 09     | 32    | Saaketh    | Vedantam   | American Heritage School             | FL             |
| 09     | 31    | Jerry      | Zhao       | William G Enloe High School          | NC             |
|        |       |            |            |                                      |                |
| 10     | 32    | Stephen    | Jiang      | Ladue Horton Watkins High School     | MO             |
| 10     | 29    | Kevin      | Luo        | White Station High School            | TN             |
|        |       |            |            |                                      |                |
| 11     | 34    | Ethan      | Zahid      | John Foster Dulles High School       | TX             |
| 11     | 33    | Krish      | Singal     | John Foster Dulles High School       | TX             |
|        |       |            |            |                                      |                |
| 12     | 31    | Kevin      | Cai        | Temple City HS                       | CA             |
| 12     | 28    | Samuel     | Berkun     | Arcadia High School                  | CA             |
|        |       |            |            |                                      |                |
| 13     | 35    | Nyle       | Wong       | University High School               | CA             |
| 13     | 34    | James      | Chen       | University High School               | CA             |
|        |       |            |            |                                      |                |
| 14     | 35    | Daniel     | Sun        | Interlake HS                         | WA             |
| 14     | 32    | Yanjun     | Zhou       | Lemania International School Altdorf | Uri            |

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

| <b>RANK</b> | <b>REGION</b> | <b>SCORE</b> | <b>SCHOOL</b>                    | <b>STATE/PROV.</b> |
|-------------|---------------|--------------|----------------------------------|--------------------|
| <b>1</b>    | 04            | 165          | Gauss School of Math and Science | NJ                 |
| <b>2</b>    | 13            | 150          | Saratoga High School             | CA                 |
| <b>3</b>    | 13            | 141          | Lynbrook HS                      | CA                 |
| <b>4</b>    | 02            | 136          | Olympiads School                 | ON                 |
| <b>5</b>    | 12            | 136          | Arcadia High School              | CA                 |

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

| <b>RANK</b> | <b>REGION</b> | <b>SCORE</b> | <b>SCHOOL</b>                  | <b>STATE/PROV.</b> |
|-------------|---------------|--------------|--------------------------------|--------------------|
| <b>1</b>    | 11            | 161          | John Foster Dulles High School | TX                 |
| <b>2</b>    | 02            | 144          | Olympiads School               | ON                 |
| <b>3</b>    | 07            | 143          | St. Anne's-Belfield School     | VA                 |
| <b>4</b>    | 13            | 143          | University High School         | CA                 |
| <b>5</b>    | 01            | 137          | Science Academy of South Texas | TX                 |

**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 01

| DIV 1 |     |                                     |    | DIV 2 |     |                                     |    |
|-------|-----|-------------------------------------|----|-------|-----|-------------------------------------|----|
| 1     | 118 | Oklahoma School of Science and Math | OK | 1     | 126 | Bergen County Academies             | NJ |
| 2     | 109 | Montgomery Blair High School        | MD | 2     | 120 | Montgomery Blair High School        | MD |
| 3     | 106 | School for the Talented and Gifted  | TX | 3     | 115 | Oklahoma School of Science and Math | OK |
| 4     | 104 | Bergen County Academies             | NJ | 4     | 98  | School of Science and Engineering   | TX |

### REGION 02

| DIV 1 |     |                                    |    | DIV 2 |     |                             |    |
|-------|-----|------------------------------------|----|-------|-----|-----------------------------|----|
| 1     | 108 | Upper Canada College               | ON | 1     | 128 | Western Canada High School  | AB |
| 2     | 102 | Marc Garneau C.I.                  | ON | 2     | 122 | Marc Garneau C.I.           | ON |
| 3     | 89  | Victoria Park Collegiate Institute | ON | 3     | 93  | Marianopolis College        | QC |
| 4     | 87  | Ay Jackson Secondary School        | ON | 4     | 87  | Ay Jackson Secondary School | ON |

### REGION 03

| DIV 1 |     |                        |    | DIV 2 |     |                        |    |
|-------|-----|------------------------|----|-------|-----|------------------------|----|
| 1     | 122 | Guilford High School   | CT | 1     | 113 | Guilford High School   | CT |
| 2     | 112 | New Canaan High School | CT | 2     | 101 | New Canaan High School | CT |
| 3     | 103 | Avon High School       | CT | 3     | 95  | Sharon High School     | MA |
| 4     | 101 | Middlesex School       | MA | 4     | 90  | Middlesex School       | MA |

### REGION 04

| DIV 1 |     |   |    | DIV 2 |     |  |    |
|-------|-----|---|----|-------|-----|--|----|
| 1     | 115 | West Windsor-Plainsboro HS South          | NJ | 1     | 136 | West Windsor Plainsboro HS North                   | NJ |
| 2     | 102 | John P Stevens High School                | NJ | 2     | 135 | Princeton International School of Math and Science | NJ |
| 3     | 101 | West Windsor Plainsboro HS North          | NJ | 3     | 133 | Princeton High School                              | NJ |
| 4     | 99  | Northern Valley Regional HS at Old Tappan | NJ | 4     | 128 | West Windsor-Plainsboro HS South                   | NJ |

### REGION 05

| DIV 1 |     |                                     |    | DIV 2 |    |                          |    |
|-------|-----|-------------------------------------|----|-------|----|--------------------------|----|
| 1     | 106 | Staten Island Technical High School | NY | 1     | 92 | Herricks High School     | NY |
| 2     | 96  | School Nova At Stony Brook          | NY | 2     | 81 | T.S. Wootton High School | MD |
| 3     | 96  | Manhasset High School               | NY | 3     | 80 | Irondequoit High School  | NY |
| 4     | 93  | The Bullis School                   | MD | 4     | 69 | Island Trees High School | NY |

### REGION 06

| DIV 1 |     |                                   |    | DIV 2 |     |                                    |    |
|-------|-----|-----------------------------------|----|-------|-----|------------------------------------|----|
| 1     | 113 | Pittsburgh Allderdice High School | PA | 1     | 101 | North Allegheny Senior High School | PA |
| 2     | 108 | Shady Side Academy                | PA | 2     | 88  | Dallastown Area High School        | PA |
| 3     | 101 | Great Valley High School          | PA | 3     | 81  | Haverford High School              | PA |
| 4     | 100 | The Miami Valley School           | OH | 4     | 46  | Pittsburgh Allderdice High School  | PA |

### REGION 07

| DIV 1 |     |                        |    | DIV 2 |     |                          |    |
|-------|-----|------------------------|----|-------|-----|--------------------------|----|
| 1     | 118 | Troy High School       | MI | 1     | 118 | Carmel High School       | IN |
| 2     | 113 | Carmel High School     | IN | 2     | 106 | East Lansing High School | MI |
| 3     | 109 | Morgantown High School | WV | 3     | 105 | Troy High School         | MI |
| 4     | 106 | Greenhills School      | MI | 4     | 98  | Langlely High School     | VA |

### REGION 08

| DIV 1 |     |                          |    | DIV 2 |     |                                  |    |
|-------|-----|--------------------------|----|-------|-----|----------------------------------|----|
| 1     | 119 | Libertyville High School | IL | 1     | 112 | Libertyville High School         | IL |
| 2     | 103 | Eisenhower High School   | WI | 2     | 104 | Vernon Hills High School         | IL |
| 3     | 102 | Vernon Hills High School | IL | 3     | 100 | Arrowhead High School            | WI |
| 4     | 100 | Marshfield High School   | WI | 4     | 100 | Carbondale Community High School | IL |

### REGION 09

| DIV 1 |     |   |    | DIV 2 |     |   |    |
|-------|-----|---|----|-------|-----|---|----|
| 1     | 132 | Buchholz High School                    | FL | 1     | 133 | American Heritage School                | FL |
| 2     | 115 | American Heritage School of Boca/Delray | FL | 2     | 131 | Buchholz High School                    | FL |
| 3     | 110 | American Heritage School                | FL | 3     | 117 | American Heritage School of Boca/Delray | FL |
| 4     | 108 | Northview High School                   | GA | 4     | 109 | West Shore Jr/Sr High School            | FL |



### REGION 10

| DIV 1 |     |                             |    | DIV 2 |     |                                  |    |
|-------|-----|-----------------------------|----|-------|-----|----------------------------------|----|
| 1     | 111 | Alabama School of Fine Arts | AL | 1     | 127 | Ladue Horton Watkins High School | MO |
| 2     | 110 | White Station High School   | TN | 2     | 109 | Memphis University School        | TN |
| 3     | 101 | Millennium High School      | AZ | 3     | 107 | White Station High School        | TN |
| 4     | 101 | Chaparral HS                | CO | 4     | 93  | BASIS Chandler                   | AZ |

### REGION 11

| DIV 1 |     |                                      |    | DIV 2 |     |                                      |    |
|-------|-----|--------------------------------------|----|-------|-----|--------------------------------------|----|
| 1     | 123 | Carnegie Vanguard High School        | TX | 1     | 109 | St. Mark's School of Texas           | TX |
| 2     | 116 | John Foster Dulles High School       | TX | 2     | 84  | Round Rock High School               | TX |
| 3     | 97  | Cistercian Preparatory School        | TX | 3     | 82  | Klein High School                    | TX |
| 4     | 93  | Pearland Independent School District | TX | 4     | 81  | Pearland Independent School District | TX |

### REGION 12

| DIV 1 |     |                                    |    | DIV 2 |     |                                    |    |
|-------|-----|------------------------------------|----|-------|-----|------------------------------------|----|
| 1     | 130 | Palos Verdes Peninsula High School | CA | 1     | 126 | Diamond Bar High School            | CA |
| 2     | 123 | Temple City HS                     | CA | 2     | 109 | Palos Verdes Peninsula High School | CA |
| 3     | 114 | Diamond Bar High School            | CA | 3     | 104 | Arcadia High School                | CA |
| 4     | 111 | La Canada High School              | CA | 4     | 101 | The Bishop's School                | CA |

### REGION 13

| DIV 1 |     |                         |    | DIV 2 |     |                          |    |
|-------|-----|-------------------------|----|-------|-----|--------------------------|----|
| 1     | 121 | The Harker School       | CA | 1     | 118 | Saratoga High School     | CA |
| 2     | 112 | Northwood High School   | CA | 2     | 115 | Monta Vista High School  | CA |
| 3     | 107 | University High School  | CA | 3     | 110 | The Harker School        | CA |
| 4     | 104 | Monta Vista High School | CA | 4     | 94  | Valley Christian Schools | CA |

### REGION 14

| DIV 1 |     |  |              | DIV 2 |     |  |              |
|-------|-----|--|--------------|-------|-----|--|--------------|
| 1     | 118 | National Mathematics and Science College     | England      | 1     | 121 | Philippine Science High School - Main Campus | Metro Manila |
| 2     | 113 | United World College of South East Asia      | Singapore    | 2     | 116 | Pui Ching Middle School                      | MACAU        |
| 3     | 113 | Kultur Science High School                   | Turkey       | 3     | 113 | Mathematical Grammar School                  | Serbia       |
| 4     | 109 | Philippine Science High School - Main Campus | Metro Manila | 4     | 113 | Interlake HS                                 | WA           |