| **Event** | **Type** | **Notes** |
| --- | --- | --- |
| **Individual Event 1**  40 Questions  (40 possible points) | **9:00 – 9:15 a.m.**  **Mental Math** | -No scratch paper allowed. No writing on the paper, in the air, or on the desk.  -Violations will result in a student score of zero. |
| **Individual Event 2**  35 Multiple-Choice Questions  5 Short Response Question  (40 possible points) | **9:20 – 10:05 a.m.**  **Written**  The 5 short response questions are used to break a tie for individual placements. | -Scratch paper is allowed.  -Problems will be (IAR) format.  -Students in Division A will write on the test. All other divisions will circle answers on a TEST answer bubble sheet.  -Some items will have more than 1 answer.  **Short response items must be labeled.** |
| **BREAK 10:10 – 10:25 a.m. Snacks will be provided.** | | |
| **Team Event 1**  10 Problems worth 5 points  (50 possible points) | **10:30 – 11:10 a.m.**  **Problem Solving Questions** | -Scratch paper is allowed.  -Algebraic Thinking/Math Olympiad type questions  -Students will work together as a group. A team captain must be designated before the event. Team discussion is required and **only** the captain will fill in the answer sheet.  **Each team submits one answer sheet.** |
| **Team Event 2**  3 Sections worth 10 points  -KenKen  -Logic  -Visual Patterns  (30 possible points) | **11:15 – 11:40 a.m.**  **KenKen - Medium Level**  DIVISION A 4 x 4 using + and -  DIVISION B 5 x 5 using + - x ÷  DIVISION C 6 x 6 using + - x ÷  DIVISION D 7 x 7 using + - x ÷    **Logic Puzzle - Moderate Level**  DIVISION A 2 attributes  DIVISION B 3 by 4 puzzle  DIVISION C 3 by 5 puzzle  DIVISION D 4 by 4 puzzle  **Visual Pattern Problems**  <http://www.visualpatterns.org/>  DIVISION A How many in the 6th  DIVISION B How many in the 10th  DIVISION C How many in the 43rd  DIVISION D Write the equation | -Scratch paper is allowed.  -Students will work together as a group, Discussion required! A team captain must be designated before the event.  **Partial points will not be awarded.**    -**KenKen** worth 10 points    -**Logic puzzle** worth 10 points    -**Visual pattern** 5 problems- 2 points each for a total of 10 points    **Each team submits one answer sheet.**  First, the logic question will be used to break a tie for placement, second, KenKen. |