|  |  |  |
| --- | --- | --- |
| **Educational & Physical Attributes** | **Expectations** | **Present Education Level** |
| **Program Safety & Physical Considerations** | * Ability to lift 50 lbs overhead
* Ability to work in all weather conditions
* Ability to work independently
* Good eye/hand coordination
* No fear of heights or working on closed spaces
* Physical strength and stamina
* Hair pulled back
* Safety equipment worn
 |  |
| Action/Need: |
| **Essential skills for this lab**  | Scores of average or above on:* Eye/hand/foot coordination
* Flexibility
* Critical thinking
* Active listening
* Judgement,decision making, and self control
* Finger dexterity
* Form perception
* Manual dexterity
* Spatial aptitude
* Ability to work independently and in groups
 |  |
| Action/Need: |
| **Reading & Language Arts Levels** | * Cite specific textual evidence & determine the central ideas or conclusions
* Determine the meaning of symbols, key terms, & other content specific vocabulary
* Analyze the structure of the relationships among concepts in a text
* Use tables, charts, organizers to analysis technical information expressed in a text into visual form
* Compare & contrast findings in a text
* Evaluate the hypotheses, data, analysis, and conclusions in a technical text
* Synthesis information from a range of sources
* Follow precisely a complex multi-step procedure
* By the end of grades 9-10 & 11-12 read & comprehend technical texts independently & proficiently
* Write different types of essays such as: argumentative, informative, & explanatory focused on program specific content
* Produce clear & coherent writing
* Develop and strengthen writing by brainstorming, revising, editing, rewriting
* Write routinely over short/long time frames for a range of tasks, purposes, & audiences
* Use technology to produce, publish, or share writing
 | Reading Grade 8 PSSA: BB BAS PRO ADVWriting Grade 8 PSSA: BB BAS PRO ADVKeystone Literature: BB BAS PRO ADVLexile Score |
| Action/Need: |
| **Math Levels** | * Arithmetic computational skills
* Addition, subtraction, multiplication, and division of whole numbers, fractions and decimals
* Measurement-Imperial and metric systems
* Unit conversion between: metric and imperial systems
* Estimating quantities
* Conversion between decimals, fractions, and percents
* Rounding numbers
* Conversion between units in English system
* Accurately reading a tape measure
* Reading and taking accurate measurements
* Manipulation and application of fractional measurements
* Percentages
* Ratios and proportions
* Algebra skills
* Using formulas
* Manipulating equations
* Understanding slope and grade
* Pythagorean Theorem
* Geometry
* Calculating perimeter, area, volume and other quantities
* Calculating area of irregular shapes
* Measuring angles
* Ohm’s Law Formulas
* Power Formulas
* Calculating estimates
* Calculating wages and payroll
* Creating bills and other bookkeeping tasks
 | Math Grade 8 PSSA: BB BAS PRO ADVKeystone Algebra I: BB BAS PRO ADV |
| Action/Need: |
| **Theory Time** | * 2.5 hours per week
 |  |
| Action/Need: |
| **Lab Time** | * 10 hours per week
 |  |
| Action/Need: |
| **Homework** | * study guides
* daily trade term review
* study for tests
 |  |
| Action/Need: |
| **Assessments** | * Quarterly assessments
* 3-4 module tests/marking period
* 6-10 projects/marking period
* Industry Certifications

- OSHA 10 certification- Ladder certification* NOCTI (mandatory for all CTC programs)
 |  |
| Action/Need: |
| **Study & Other Skills**  | * note taking skills
* good attendance
* Responsible
 |  |
| Action/Need: |
|  |  |  |
|  |