**Course Name**

**East Ridge High School**

**2017 - 2018**

**Instructor**: Name: Jack Noblit

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 Available after school: by Appointments only. Confirm date and time before appointment.

\*Asterisk denotes teacher’s preferred way of communication.

**Course Description**

Plumbing Systems prepares students for careers in plumbing across a variety of residential and commercial settings. Upon completion of this course, proficient students will be able to implement safety procedures and tools to perform operations with plumbing systems. Students will be able to explain how drain, waste, and vent (DWV) systems, water distribution systems, and plumbing fixtures work and apply proper tools and procedures to perform operations with plumbing piping, including measuring, cutting, joining, supporting, and hanging various types of pipe. Students will read and interpret drawings, specifications, and diagrams to determine materials needed to complete a plumbing project. Standards in this course also introduce basic maintenance and troubleshooting procedures and expand on principles of the construction industry, delving deeper into business and project management. Students will continue compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in this program of study.

**Course Policies**

Safety will be the paramount goal of the course and class rules reflect that goal. The classroom is also the shop so rules apply to both situations. Make-up work will be granted on the instructor’s discretion on paper work, but will not be granted for hands-on work.

**Assessments and Grading**

Tests will be multiple choice and true/false

Daily grades will given on hands-on work days based on participation

A 2 page research paper on the history of pluming innovations

**Your grade will be calculated as shown below**:

 Grading formula for each 9-week’s grade:

· Teaching tasks other than tests 60%

Daily assignments and measuring assignments

Project design and build (2nd 9 weeks only) 20%

 Assessments and Tests 20%

**Grade Calculations for high school courses without a state-level test:**

· 1st Nine Weeks – 40%

· 2nd Nine Weeks – 40%

· Exam – 20%

 **Course Topics and Schedule by Semester**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Semester 1** | **Topic** | **UbD** |
| 1 |   |  Safety |   |
| 2 |   |   |   |
| 3 |   |  Tools & Equipment |   |
| 4 |   |   |   |
| 5 |   | Construction Industry Principles |   |
| 6 |   | Construction Drawings & Specifications |   |
| 7 |   | Plumbing Math |   |
| 8 |   |  |   |
| 9 |  **(End of 1st quarter)** |  Plastic Pipe & Fittings |  |
|   |   | **Fall Break** |  |
| 10 |   | Copper Tube & Fittings |   |
| 11 |   | Cast-Iron Pipe & Fittings |   |
| 12 |   | Carbon Steel Pipe & Fittings  |   |
| 13 |   | Plumbing Fixtures |   |
| 14 |   | Drain, Waste, & Vent (DWV) Systems |   |
| 15 |  (Thanksgiving) | Water Distribution Systems |   |
| 16 |   |  |   |
| 17 |   | Basic Maintenance & Repair Process |   |
| 18 |  **(End of Semester 1)** | Green Practices in Plumbing, Business & Project Management |   |
|   |  |   |   |

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Semester 2** | **Topic** | **UbD** |
| 1 |   |  safety |   |
| 2 |   |   |   |
| 3 |   | Tools & Equipment |   |
| 4 |   |   |   |
| 5 |   | Construction Industry Principles |   |
| 6 |   |  Construction Drawings & Specifications |   |
| 7 |   | Plumbing Math  |   |
| 8 |   |   |   |
| 9 |   | Plastic Pipe & Fittings |   |
| 10 |   | Copper Tube & Fittings |   |
| 11 |  **(End of 3rd quarter)** | Cast-Iron Pipe & Fittings |   |
|   | **March** | **Spring Break** |  |
| 12 |   | Carbon Steel Pipe & Fittings  |   |
| 13 |   | Plumbing Fixtures |  |
| 14 |   | Drain, Waste, & Vent (DWV) Systems |   |
| 15 |   | Water Distribution Systems |   |
| 16 |   |   |   |
| 17 |   | Basic Maintenance & Repair Process |   |
| 18 |   | Green Practices in Plumbing, Business & Project Management |   |
| 19 |   |  projects |   |
| 20 | **May 22-26 (End of 4th quarter)** |   |   |
|   |  |   |   |