Explore the different careers using the national careers service:
https://nationalcareers.service.gov.uk/explore-careers

| Year 10 Maths Topics | Careers that use this skill |  | |
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| **Percentages** | **Retail Assistant (Entry-level):** Calculating discounts and sales tax.<br>**Nurse (Public Sector):** Calculating medication dosages and patient improvement rates.<br>**Investment Banker (Aspirational):** Analysing stock market trends and interest rates. | Bitesize Careers<br><br>My Learning, My Future | |
| **Surface Area & Volume** | **Painter and Decorator (Apprenticeship):** Estimating paint needed for walls and ceilings.<br>**Firefighter (Public Sector):** Calculating the volume of water needed to extinguish a fire.<br>**Aerospace Engineer (Aspirational):** Designing fuel tanks and aerodynamic surfaces. | iCould<br><br>MyPath Maths: Why Bother? | |
| **Simultaneous Equations** | **Logistics Coordinator (Middle Ability):** Balancing delivery schedules and fuel costs.<br>**Air Traffic Controller (Public Sector):** Calculating safe flight paths for multiple aircraft.<br>**Data Scientist (Aspirational):** Developing complex algorithms for predictive modeling. | Bitesize Careers<br><br>Work Ready Lancashire | |
| **Formulae** | **Pharmacy Assistant (Middle Ability):** Using simple formulae for measuring ingredients.<br>**Police Officer (Public Sector):** Using speed-distance-time formulae for | My Learning, My Future<br><br>iCould | |

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| | accident investigations.<br>**Quantitative Analyst (Aspirational):** Using advanced calculus and formulae for financial forecasting. | |
| **Trigonometry** | **Carpenter (Apprenticeship):** Calculating angles for roof trusses and stairs.<br>**Land Surveyor (Public Sector):** Mapping terrain for public infrastructure projects.<br>**Architect (Aspirational):** Designing structurally sound and aesthetically pleasing buildings. | Bitesize Careers<br><br>MyPath Maths: Why Bother? |
| **Constructions** | **Bricklayer (Apprenticeship):** Ensuring walls are straight and levels are accurate.<br>**Civil Engineering Technician (Public Sector):** Assisting in the design of public roads and bridges.<br>**Structural Engineer (Aspirational):** Calculating the load-bearing capacity of skyscrapers. | Work Ready Lancashire<br><br>iCould |
| **Linear Graphs** | **Personal Trainer (Middle Ability):** Tracking client progress and heart rate trends.<br>**Public Health Analyst (Public Sector):** Mapping the spread of diseases over time.<br>**Economist (Aspirational):** Analysing supply and demand curves to predict market shifts. | Bitesize Careers<br><br>My Learning, My Future |
| **Real-life Graphs** | **Delivery Driver (Entry-level):** Interpreting GPS routes and time-distance graphs.<br>**Environmental Health Officer (Public Sector):** Monitoring noise and pollution levels over time.<br>**Meteorologist (Aspirational):** | MyPath Maths: Why Bother?<br><br>iCould |

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|---|---|---|
| | Analyzing atmospheric data to predict weather patterns. | |
| **Ratio & Proportion** | **Chef (Apprenticeship):** Scaling recipes for different numbers of diners.<br>**Paramedic (Public Sector):** Calculating fluid replacement ratios for emergency patients.<br>**Chemical Engineer (Aspirational):** Managing ratios of reactants in large-scale manufacturing. | Bitesize Careers<br><br>Work Ready Lancashire |
| **Handling Data & Statistical Diagrams** | **Administrative Assistant (Entry-level):** Organizing spreadsheets and creating basic charts.<br>**Government Statistician (Public Sector):** Analysing census data and public service usage.<br>**Actuary (Aspirational):** Using complex statistics to assess risk for insurance companies. | My Learning, My Future<br><br>iCould |