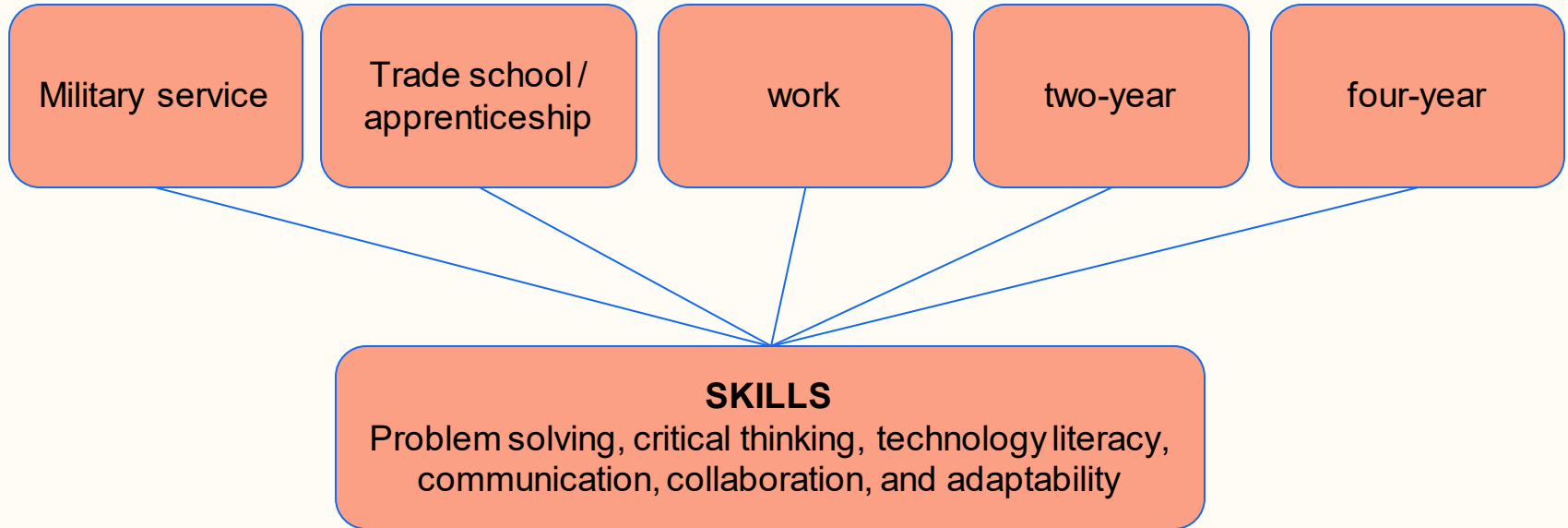




Math Pathways Resource

Please copy and utilize with your
students

Pathways after high school



What are your current plans after high school?
Predict how any of the previous skills will be
applicable to your pathway

Match the mathematical skills to the century when these skills were important.

Arithmetic, algebra, geometry



Critical thinking



19th century

Solving an equation



Calculations for trade, finance, and home



Problem solving



20th century

Data analysis



Apply to real-world scenarios



Match the mathematical skills to the century when these skills were important.

Arithmetic, algebra, geometry

Critical thinking

Solving an equation

Calculations for trade, finance, and home

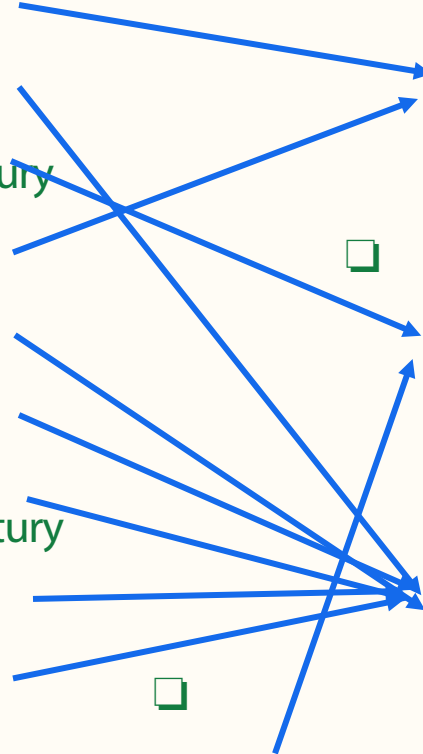
Problem solving

Data analysis

Apply to real-world scenarios

☐ 19th century

☐ 20th century



What do you notice about the skills needed for the 21st century? How might one of them apply to your planned post-highschool pathway?

How does taking a senior math class affect your future earning?

- **Closing the Earnings Gap:**

Math courses can help close the earnings gap between students from low-income and middle-income families. (Rose & Betts, 2004)

- **Improved Job Market Outcomes:**

Even among workers with the same level of education, those with stronger math skills tend to have higher wages and lower unemployment rates. (James, 2013)

- **Increased Educational Attainment:** Students who take more advanced math courses in high school are more likely to pursue higher education, which is strongly correlated with higher earnings. (Public Policy Institute of California, 2001)

- **STEM Career Paths:**

Strong math skills are crucial for careers in science, technology, engineering, and mathematics (STEM), which often offer higher salaries and job security. (Math Matters, 2022)