# Abacus

Goal: To able to use an abacus to perform math functions on grade level with [#] accuracy

Objectives:

1. [student] will be able to identify parts of the abacus
2. [student] will be able to set and read whole numbers to the [ ] place value.
3. [student] will be able to set and read decimal numbers to the [ ] place value.
4. [student] will be able to set and read simple fraction numbers on [1; 2] abacus.
5. [student] will be able to set and read mixed fractions on [1; 2] abacus
6. [student] will be able to set and read complex fractions on [1; 2] abacus
7. [student] will be able to set and read multiplier and multiplicand on [1; 2] abacus
8. [student] will be able to set and read dividend and divisor on [1; 2] abacus
9. [student] will be able to [add; subtract] numbers 0-4 on the abacus
10. [student] will be able to [add; subtract] numbers 0-9 on the abacus using [synthesis; counting/exchange] method
11. [student] will be able to [add; subtract] numbers 0-14 on the abacus using [synthesis; double synthesis; counting/exchange] method
12. [student] will be able to [add; subtract] numbers 0-19 on the abacus using [synthesis; double synthesis; counting/exchange] method
13. [student] will be able to add one digit number to a [two; three; four; five] digit numeral on the abacus using [synthesis; double synthesis; counting/exchange] method
14. [student] will be able to add two digit number to a [two; three; four; five] digit numeral on the abacus using [synthesis; double synthesis; counting/exchange] method
15. [student] will be able to add three digit number to a [two; three; four; five] digit numeral on the abacus using [synthesis; double synthesis; counting/exchange] method
16. [student] will be able to add four digit number to a [two; three; four; five] digit numeral on the abacus using [synthesis; double synthesis; counting/exchange] method
17. [student] will be able to subtract one digit number from a [two; three; four; five] digit numeral on the abacus using [synthesis; double synthesis; counting/exchange] method
18. [student] will be able to subtract a two digit number from a [two; three; four; five] digit numeral on the abacus using [synthesis; double synthesis; counting/exchange] method
19. [student] will be able to subtract a three digit number from a [three; four; five] digit numeral on the abacus using [synthesis; double synthesis; counting/exchange] method
20. [student] will be able to subtract a four digit number from a [four; five; six ] digit numeral on the abacus using [synthesis; double synthesis; counting/exchange] method
21. [student] will be able to [add; subtract] decimals using [1; 2] abacus
22. [student] will be able to [add; subtract] simple fractions using [1; 2; 3; 4] abacus
23. [student] will be able to [add; subtract] mixed/complex fractions using [1; 2; 3; 4] abacus
24. [student] will be able to multiply one digit number times two; three; four; five] digit number with [single synthesis; double synthesis; counting/exchange] on [1; 2] abacus.
25. [student] will be able to divide one digit number from [two; three; four; five] digit number with [single synthesis; double synthesis; counting/exchange] on [1; 2] abacus.
26. [student] will be able to multiply two digit numbers times a [two; three; four; five] digit number with [single synthesis; double synthesis; counting/exchange] on [1; 2] abacus.
27. [student] will be able to divide a two digit number from a [two; three; four; five] digit number with [single synthesis; double synthesis; counting/exchange] on [1; 2] abacus.
28. [student] will be able to multiply a three digit number times a [two; three; four; five] digit number with [single synthesis; double synthesis; counting/exchange] on [1; 2] abacus.
29. [student] will be able to divide a three digit number from a [three; four; five] digit number with [single synthesis; double synthesis; counting/exchange] on [1; 2] abacus.
30. [student] will be able to multiple decimals on [1; 2] abacus
31. [student] will be able to multiple [simple; mixed; complex] fractions on [1; 2; 4] abacus
32. [student] will be able to divide[simple; mixed; complex] fractions on [1; 2; 4] abacus
33. [student] will be able to divide[simple; mixed; complex] fractions on [1; 2; 4] abacus
34. [student] will be able to compute ratios on the abacus
35. [student] will be able to compute percent on the abacus