

Ross Summer Academy

#4: Dynamic

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Exemplary Units

- Five mentalities:
 - R: aRithmetic, from dot
 - G: Geometric, from 3500 BCE (grade 5)
 - A: Algebraic, from 800 CE (grade 8)
 - D: Dynamic, from 1600 (grade 9)
 - X: Chaotic, from 1889 (grade 11)

D threads, grs 9-12

- D1. Vincenzo, 1580
- D2. Galileo, 1589
- D3. Kepler, 1604

DI. Vincenzo

- 1520, Mannerism, Vincenzo born
- 1563, V studies with Zarlino, Bardi helps
- 1580, V experiments with tunings
- 1590, V studies vibrating strings
- 1591, V died

D2. Galileo

- 1564, Galileo born
- 1580, G helps V with experiments
- 1592, G moved to Padua
- 1589-1604, G experiments, billiard balls
- 1638, G's dynamics published

D3. Kepler

- 1571, K born
- 1602, K discovers 2nd law (diff calculus)
- 1615, K studies wine bottles (int calculus)
- 1615, K's mother accused of witchcraft
- 1619, K music of the spheres

The End

- For more, see:
 - www.ralph-abraham.org/ross