

# Renaissance to Rocket Science

## Rooted in the Value of Connected Multi Disciplinary Learning

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## Leonardo da Vinci an Early Advocate for Liberal Education

One of 13,000 Notebook Pages



Source: Design for a Flying Machine, c. 1488  
drawingsofleonardo.org <http://www.drawingsofleonardo.org/>

Seven da Vinci Principles

**Curiosità:** An insatiably curious approach to life and an unrelenting quest for continuous learning.

**Dimostrazione:** A commitment to test knowledge through experience, persistence and a willingness to learn from mistakes.

**Sensazione:** The continual refinement of the senses, especially sight, as the means to enliven experience.

**Sfumato:** A willingness to embrace ambiguity, paradox and uncertainty.

**Arte/Scienza:** The development of the balance between science and art, logic and imagination. "Whole-brain" thinking.

**Corporalità:** The cultivation of grace, ambidexterity, fitness and poise.

**Connessione:** A recognition of and appreciation for the interconnectedness of all things and phenomena.  
Systems thinking.

— Source Michael J. Gelb

## What is Needed as an Employer from the Education Industry



### What do we need as a major employer?

- Personal integrity and a strong ethical foundation
- Critical thinking and analytic skills
- The ability to apply knowledge the first day on the job
- Be able to communicate verbally and in writing
- The ability to work in diverse teams, collaborating across functions and cultures
- Life-long learners who are curious and willing to innovate
- Willing to challenge the status quo while having a systems thinking mindset



### How do we work to ensure we can sustain our workforce and competitive advantage?

- Work to align government, educational institutions, business and our communities
- Foster learning in middle school, high school and college
- Model applied and experiential learning internal to the company
- Work to ensure students can apply their classroom learning through internships and co-op assignments
- An evolving model



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