

# EXPERIMENTATION AND DEMONSTRATION IN THE CLASSROOM

## ABSTRACT

Too often is the case with many students that lecture and homework are simply not enough to fully understand and appreciate the material they are learning. Only through experimentation can students achieve deeper and more critical understanding of key concepts and appreciate them for their real world applications.

## Research

- David Kolb ELT Model (Figure 1.2)
- Experiential Learning** key for experimenting in classroom
- Learning does not include just knowledge but the **application of skills** and **acquisition of feelings** toward the course
- Otherwise **inborn misconceptions** may be **disassembled** through experimentation (e.g. gravitational interaction between all objects with mass)

FIGURE 1

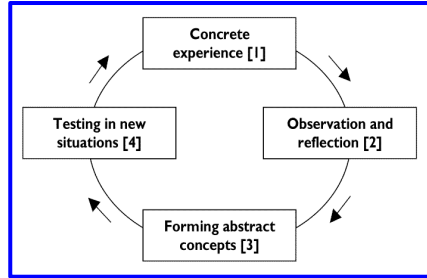
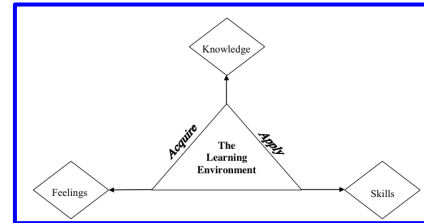


Figure 2



## CONCLUSION

- Classroom experimentation is a large contributing factor to educational development.
- 65% of all students are visual learners/ Experimentation is a form of visual teaching.
- Many past scholars and scientists developed their ideas and formulated their conclusions from the hands-on approach of experimenting.

## DISCUSSION

- Experimentation is simply applying knowledge to **real life scenarios**.
- develops problem solving skills
- visualize the material first hand
- examine the variables at play
- applies classroom concepts and theory realistically
- allows students to broaden understanding beyond written facts and mathematical models
- breaks down preconceived notions by irrefutable visual proof

## References

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