

Lessons for Life

Below is a list of Lessons for Life selected by the class as especially important.

1. Examine issues from several points of view. Look at problems from different perspectives. (6)
2. Make mistakes and fail, but never give up. (5)
3. Keep an open mind. (4)
4. Don't overlook or dismiss facts that seem insignificant or irrelevant. (3)
5. Don't believe claims that are unsubstantiated, even if they sound scientific. Until you understand the issue for yourself, be critical. (2)
6. Understand simple things deeply. (2)
7. A good representation of the problem is important.
8. Explore consequences of new ideas.
9. Experimentation is a powerful means for discovering patterns and insights.
10. Understand the issue.
11. Carefully understand and analyze the facts at hand.
12. Carefully consider the outcomes of different scenarios.
13. Just do it.
14. Look at related situations.
15. Look for patterns and similarities.

Heart of Mathematics

Below is a list of aspects of the Heart of Mathematics selected by the class. How did we do? Have we identified the Heart of Mathematics? Which of these are the most important? Which are perhaps more peripheral than central? Is anything missing? Can you support your positions based on what we have learned in this class?

1. Problem solving; word problems (3)
2. Logical thought (3)
3. Numbers (3)
4. Applications (3)
5. Algorithms/Procedures (2)
6. Proof (2)
7. Abstraction (2)
8. Creativity
9. Experimentation
10. "The study of everything through the study of nothing"
11. Most pliable discipline (can be applied to many/all other disciplines)
12. Study of relationships
13. Study of thinking
14. Certainty in solutions
15. Frustration
16. Observation
17. Simplification