"The greatest danger for most of us is not that our aim is too high and we miss it, but that it is too low and we reach it."



## Michelangelo (1475-1564)



Levels of Cognitive Demand in Mathematics

- 1. **Generalize** make and prove conjectures, prove statements generate questions
- 2. Make Connections transfer knowledge, connect two or more concepts to solve non-routine problems
- **3. Understand Concepts** communicate "big ideas", justify and explain solutions to problems, use multiple representations to model mathematical ideas, select the most appropriate representation for given situations
- 4. Perform Procedures do computations, make observations, measure and compare, solve routine problems
- 5. **Memorize** recall facts, definitions, formulas, properties, rules