

## Quikscience Challenge | Lesson Plan

### High Nutrients | Dean, Will, Gilbert, Hector, Drew

- **Life Thought** | What is a nitrate? | 5 - 10 minutes
  - Give the students time to answer the questions, then stop to clarify and discuss answers
- **Presentation** | 10 - 15 minutes
  - Include time for questions
- **Game** | 25 - 30 minutes
  - Time requirement could vary depending on class (explanations, distributing materials)
  - Game could work with groups of four
- **Quiz** | 10 minutes
  1. Where do nitrates come from?
  2. What uses nitrates?
  3. What is a symbiotic relationship?
  4. What is coral bleaching?

### Key Points

- The nitrogen cycle
- Nutrient testing methods
- Nutrient enrichment
- Nitrates & coral
- Nitrates & algae
- Coral & algae - Symbiotic relationships
- Coral bleaching

### Materials | 25 - 30 students

- 300 Pennies
- 90 Tokens
- 15 Dice
- Powerpoint
- 30 [Handouts](#)