Overview: to design equitable solutions to prevent the spread of diseases (a 3-4 month design challenge)

Our 5th and 6th graders will not only cover a wide range of topics, disciplines, and skills, they will also learn how a global, real-world problem can be seen through multiple lenses.

Standards culled from Next Generation Science Standards and the Cloud Institute.

Communications expectations
Standards & Content:
- Expository and creative writing
- Oral Presentations
- Debate
- Data analysis and visualizations (charts, maps, scientific posters)

Health & Wellness
Standards & Content:
- Health promotion
- Disease prevention
- Immunity
- Interrelationship of environment and personal health
- Dissemination of accurate information

Scientific Methodology & Processes
Standards & Content:
- Ecosystems: Interactions, Energy, and Dynamics
- Earth and Human Activity
- Interdependent relationships in ecosystems
- Human impacts

Mathematical Reasoning & Numeracy
Standards & Content:
- Ratios and proportions
- Number systems
- Expressions and equations
- Statistics and Probability

Computational Thinking
Standards & Content:
- Data Analysis and Visualization
- Statistical modeling
- Machine learning for predictive analysis

Global Implications
Standards & Content:
- Consequences of Travel
- Political unrest and violence
- Implications of catastrophe
- Distrust of other cultures

Critical Reading & Research
Standards & Content:
- Primary & Secondary Sources
- Historical Fiction & Non-Fiction
- Research & Analytical Skills
- Local, National, and Global Perspectives

Political & Ethical Implications
Standards & Content:
- Fact-finding
- Decision-making
- Scarce Resources
- Risk Assessment and Management