River City Curriculum Objectives

Students will get better at….

- **Analyzing** symptoms to distinguish between different diseases.
- **Understanding** that different diseases are transmitted in different ways.
- **Knowing** that diseases can be transmitted by insects, humans, and contaminated food/water.
- **Identifying** the source of a contamination.
- **Tracking** how contamination is affected by natural abiotic forces such as gravity, wind, water currents and weather.
- **Differentiating** between an observation and an inference.
- **Making** observations and inferences.
- **Using** the scientific method to solve problems.
- **Gathering** information and data from a variety of sources including text, images, and personal statements to inform a hypothesis.
- **Analyzing** images for meaning and **drawing** conclusions and inferences from them.
- **Analyzing** conversations and comments for meaning and **drawing** conclusions and inferences from them.
- **Analyzing** primary source documents and **drawing** conclusions from these documents.
- **Identifying** a problem and **creating** a hypothesis about the source of that problem.
- **Designing** an experiment to test a hypothesis.
- **Naming and defining** variables (independent and dependent) and groups (experimental and control) in an experiment.
- **Considering** and **naming** these variables within the context of one’s own experiment.
- **Carrying out** an experiment and **collecting** information and data to justify or critique the hypothesis.
- **Assessing** progress and **determining** what steps to take to achieve a goal and solve a problem.
- **Acknowledging** that each little piece of data or each observation contributes to knowledge of a larger puzzle.
- **Knowing** that one little piece cannot solve the larger puzzle alone, but that the larger puzzle can’t be solved without all the little pieces
- **Collaborating** with peers in order to solve a problem
- **Consulting** with teammates in order to create a composite picture of a problem and information gathered related to that problem.
- **Analyzing** results and **drawing** conclusions from one’s own data and research.
- **Graphing** and **presenting** data.
- **Producing** informed recommendations in written form based on findings to solve a problem.
- **Developing** a presentation to display findings and recommendations.
- **Listening** to and **gathering** information from peers’ presentations.
- **Recognizing** the variety of evidence that epidemiologists must collect to determine the origin, infectious agent, and route of transmission of an infectious disease.
- **Giving** examples of how an infectious agent can be transmitted to and between humans.
- **Understanding** that the actions of people affect their environment and disease transmission.
River City Curriculum Objectives

- **Using** a map to determine one’s location/orientation and to navigate through the virtual world.
- **Exploring** and **manipulating** features in a virtual environment.
- **Transferring** information from the class lesson to another problem situation.

Students will…

- **Gain** confidence about their science investigation abilities through using the scientific inquiry process.
- **Exhibit** increased characteristics of motivation such as attention, enthusiasm for the activity, and participation.
- **See** connections between science content and process to the real world and applications for these connections.
- **Demonstrate** increased interest in future science endeavors both in and outside the classroom.