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| Science Literacy Skill | Plan to Develop Skill | Why is this skill important | Representative Activity |
| Problem Solving | My plan to develop this skill is at the beginning of each unit I will plan to have at least two activities per topic that involves problem solving. These may not always be science related but students should be able to translate this skill into other classes besides science. The activity I choose is the Blackout Syndrome. Students would work through the online program and then fill out a question sheet as they went along. | Problem solving is a major component to science. Problem solving helps to get to conclusions and overcome problems that arise during experiment. Problem solving will come in handy for students when they are allowed to start designing their own experiments. | <http://www.accessexcellence.org/AE/mspot/tbs/>  This site has many problem solving activities I just choose one but they have a lot of great options! |
| Deductive Reasoning | My plan to develop this skill would be in the beginning of the year before we dive into any science material. I would do the “Who Killed the Red Baron” activity. This activity breaks up the students into groups of three (also a good way to get to know students in the class). The students have to come up with conclusions based on the fact sheets that their groups received. Then once everyone is done we will come together as a class to discuss all of their conclusions. | This skill is important to develop because it helps bring about a more specific conclusion rather than just a generalized statement. In science this can help to explain why we got a certain outcome after performing an experiment. This can serve as evidence for why a law of science works as well. Students can also use this in everyday life to figure out why something is the way that it is based on facts they are given. I like to call this skill the miniature detective. | <http://www.pbs.org/wgbh/nova/teachers/activities/>  3011\_redbaron.html#materials |
| Analysis of data | I would use this activity during a unit on natural selection. The activity is a computer program that allows the students to manipulate a population of sheep. As the students change attributes of the sheep and their surroundings the program produces graphs to show how the relationships change. The students will also get a worksheet that has them draw the graphs and explain how their manipulations changed the sheep population and if what they changed was successful or not. | This skill is important because it helps to provide evidence for supporting or rejecting a hypothesis. This doesn’t just have to be science related. Analyzing facts or data can help to make an argument about anything. It is important that we teach students how to interpret data so that they can make the correct conclusions and use the correct data to support their claims. | <http://www.concord.org/activities/conflicting-selection-pressures> |