Grade Level: 5

Materials
- Students will have access to a computer that is connected to the Internet.
- Students will have three Boolean logic practice search sheets.

Prerequisite Skills
- Students will have basic knowledge of navigating a web browser.
- Students will understand the concepts of Boolean logic.

Standards
CCG 1, 2, 4
Gr5 1, 2, 3, 6
NETS 1, 2, 3
Big6 2.1, 3.1, 3.2, 4.1, 4.2, 6.1, 6.2
ILS 2, 4, 10

Lesson Objectives
Students will learn to apply Boolean operators to actual searches on the Internet using practice sheets. Students will also analyze the results they find and connect them to the Boolean operator used.

Anticipatory Set
Review the Boolean game from the previous lesson. Ask students to connect the concept to doing searches on the Internet. Tell students that they will have the opportunity to apply what they learned to practice searches.

Stated Objective and Purpose
"Today, we will practice what we have learned about Boolean operators using practice search sheets. This will reinforce your knowledge and help you apply this knowledge to your research project."

Learning Activities/Procedures
- Pass out practice search handouts.
- Provide class demonstration of first practice search.
- Have class begin working on practice search.

Adaptation for Special Needs & Multiple Intelligence's
- Have helper students assist low readers.
- Have students create their own searches and analyze the results.

Closure
Have students turn in practice sheets. Tell students that there is one more lesson on the research process before beginning actual research for the Adopt a State project.

Assessment

Practice sheets will be scored according to the unit scoring guide. Teacher will provide formative assessment by observing student work, making suggestions and answering questions.

Reflection

This lesson was very straightforward for the students. I believe it is due to focusing heavily on Boolean operators during the previous two lessons. They all knew what they were, how to use them, and how to understand the results that they received. Most students finished with time still left in class. I began writing more search terms on the board for them to practice. I encouraged them to come up with their own searches using Boolean operators to help them find information on topics that interested them. I think the understanding of Boolean operators is critical for young students to grasp and I feel those respective lessons within this unit have been satisfactorily addressed.