Rainbow Logic Activity: Lesson Plan

Activity Description:

Demonstrate the activity on a projector in the classroom. Have the students call out the answers. Use the template provided. (RainbowLogic.doc)
Use MS Word's formatting toolbar with the paint option.

The Word document has a 3x3 grid. Your audience has to guess the colors in each square. The rules for filling the square are as follows.

    i.   Possible colors: Red, blue, green
    ii.   At least one side should share the same color as the neighboring square.

Ask students to call out colors. They can ask the pattern for a row or column. Be sure to let them know that the pattern written is in alphabetical order only and is not indicative of the color of the square.

If they call out the color of a square they need to be able to justify their reasoning. (Why do they think the square is that color.)

Group Activity

1. Print out the templates provided.
2. Break the class into groups for 4 each. Give each group about 10 templates.
3. Give the groups crayons to color with.
   One team member creates the puzzle.
   The rest of the team has to guess the colors of the squares following the rules provided. (Each team member can take turns in creating the puzzle.)

Notes:
1. Walk around the groups to see how they are solving the problem. This is a good time to let them know that they are "problem solving". As they create solutions introduce the word "algorithms"

2. Make sure they understand that atleast one common side should share a color.

3. Having adjacent squares share colors is not acceptable.

4. While demonstrating, coloring the squares works better for visual learners.