

Learning Objectives:

- Understand what wildfire is
- Understand the causes and effects of wildfire
- Understand the factors that put homes and communities at risk of wildfire
- Understand what Firewise is, and how Firewise can help homeowners and communities reduce the risk of wildfire
- Use GIS (Geographic Information Systems), GPS (Global Positioning Systems) and fieldwork to assess a community's risk of wildfire
- Communicate Firewise information to homeowners and the community

MN Academic Standard in Science

- The student will identify and research an environmental issue and evaluate its impact

ISTE National Education Technology Standards for Students (NETS*S)

- Use content-specific tools, software, and simulations to support learning and research
- Design, develop, publish, and present products using technology resources that demonstrate and communicate curriculum concepts to audiences inside and outside the classroom
- Select and use appropriate tools and technology resources to accomplish a variety of tasks and solve problems
- Use technology tools and resources for managing and communicating information
- Select and apply technology tools for research, information analysis, problem solving, and decision making in content learning
- Investigate and apply expert systems, intelligent agents, and simulations in real-world situations

FireWise Lessons:

1. In Class - **What Is Wildfire?**
2. In Class - **Interpreting Wildfire Information**
3. In Class - **Wildfire Cause and Effect**
4. In Class - **Firewise Minnesota**
5. Computer Lab (2 days) - **Minnesota Population Growth and Change**
6. Classroom PC's - **GIS and Atlas GDS**
7. Classroom PC's (3 days) - **Level 1 Firewise Community Assessment**
8. In Class - **Level 2 Firewise Community Assessment**
Presentation Work Days (3 days)

Assignments:

- Notebook (10pts in Homework)
- Concept Map (10pts in Quizzes)
- Maps (10pts in Homework)
 - Fire Risk Homes by [Photo](#)
 - Fire Risk Homes by Photo, [Reclass](#)
 - Density Surface Model ([DSM](#))
- Community Presentation (10pts in Tests)
Format may be either:
 - Web Page
 - Power Point
 - Podcast
 - Interactive Cmap

