Name:

# Lesson 5: Land Management Plan

# **Student Worksheet**

Date:

Science Period:

**Identifying Problems and Solutions**

For each area, describe a problem related to wildfire resilience and the service(s) that could fix the problem. If an area is healthy, write “healthy” in the problem column. A problem could be having too many of one population, too many invasive species (annual grasses are mostly invasive species in Nevada), or burnable materials near homes. In the services, column list which of the five services could help solve that problem.

|  |  |  |
| --- | --- | --- |
| Area | Problem(s) | Service(s) |
| **Road** |  |  |
| **Meadow** |  |  |
| **Mixed shrub** |  |  |
| **River** |  |  |
| **Forested area** |  |  |
| **Houses** |  |  |

**Your Solution**

Just like the land management professionals, you don’t have enough money to do everything you planned above and will have to pick the services that will be the most helpful. Pick the services and areas that you think will have the biggest impact on improving Emberville’s wildfire resilience. Make sure your total cost is less than $30,000. You can choose to pay for more than one service in one area and no services in other areas if you want.

|  |  |  |
| --- | --- | --- |
| Area | Service(s) | Cost |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total cost**  **Must be less than $30,000** | |  |

## Calculating Your Resilience Score

In the spreadsheet you will be able to see your resilience score. Your resilience score is a measurement of how much you increased the wildfire resilience around Emberville. Enter a “1” in the cells for the treatments and areas you chose. This will then calculate your total cost and your resilience score.

## Recap Questions

|  |
| --- |
| What is the resilience score for your actions? |
|  |
| **Describe two of the most important actions in your plan and their impact.** |
|  |
| **Describe how one of your actions will impact the biodiversity around Emberville.** |
|  |
| **Describe how one of your actions will help maintain a healthy plant population size around Emberville.** |
|  |