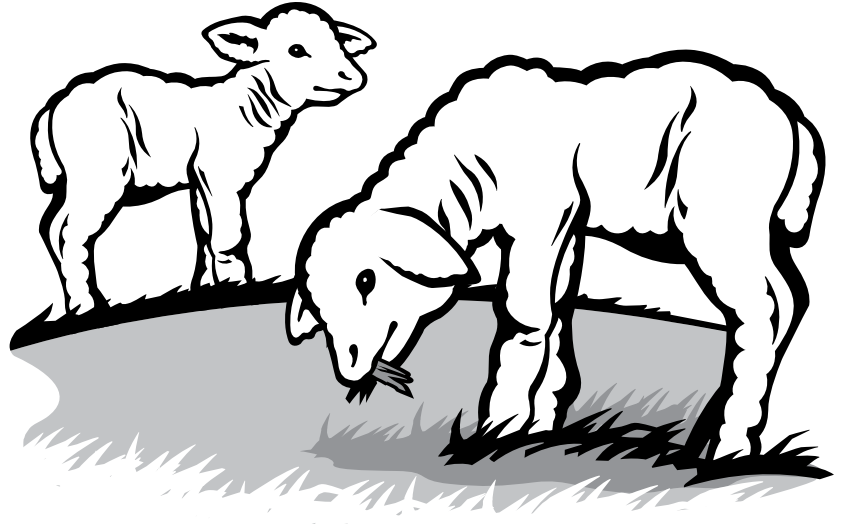


Rangeland Rescue Game Design

Materials

- ▶ File folder
- ▶ Colored paper
- ▶ Crayons, colored pencils, or markers
- ▶ Index cards
- ▶ Six-sided die
- ▶ *Rangeland Rescue Cards*
- ▶ *Range Fact Cards*
- ▶ *Rangeland Rescue Game Board Spaces*



Objective

You are a range manager working with a game board manufacturer to create a fun, easy-to-use, board game that teaches others about California rangelands.

- ▶ Prepare *Rangeland Rescue Cards*. Carefully cut out “Disaster,” “Invasive,” and “Predator” *Rangeland Rescue Cards*.
- ▶ Prepare *Range Fact Cards*. Carefully cut out *Range Fact Cards*.
- ▶ Design the path. Cut out and organize the *Rangeland Rescue Game Board Spaces* in a path. Make sure to add start and finishing spaces. Game designers must use all board spaces provided.
- ▶ Decorate the game board. Decorate the game board to reflect your theme: California rangelands.
- ▶ Make the game pieces. Identify designs that will represent California rangelands. Create one game piece for each player. The game piece must be free-standing.
- ▶ Test and retest. Test your prototype design in your group and with your classmates. Use their feedback to improve your design.

Rangeland Rescue Game Instructions

Materials

- ▶ Game piece for each player
- ▶ *Range Fact Cards*
- ▶ *Rangeland Rescue Cards*
- ▶ *Rangeland Rescue Game Board*
- ▶ Six-sided die

Players

- ▶ A game for two to four players.



Objective

- ▶ The first range manager who manages their land best (by getting to the end of the game board first) wins!

Set up

- ▶ Shuffle the *Range Fact Cards*. Shuffle the *Rangeland Rescue Cards*. Place both stacks face down near the board.
- ▶ Select a game piece and place it on “Start.”
- ▶ Roll the die to see who goes first. Play passes to the left.






















Game Play

- ▶ Roll the die and move the number of spaces shown.
- ▶ If you land on a space with livestock on it, another player will ask you a question from a *Range Fact Card*. If you answer correctly, draw a *Rangeland Rescue Card*. If answered incorrectly, remain on the same space until your next turn.











































Rangeland Rescue Cards

- ▶ Keep *Rangeland Rescue Cards* for use when a range challenge arises.

Rangeland Rescue Cards

 <p>Rangeland Rescue PREDATOR Prevention</p>	 <p>Rangeland Rescue DISASTER Prevention</p>	 <p>Rangeland Rescue INVASIVE Prevention</p>
 <p>Rangeland Rescue PREDATOR Prevention</p>	 <p>Rangeland Rescue DISASTER Prevention</p>	 <p>Rangeland Rescue INVASIVE Prevention</p>
 <p>Rangeland Rescue PREDATOR Prevention</p>	 <p>Rangeland Rescue DISASTER Prevention</p>	 <p>Rangeland Rescue INVASIVE Prevention</p>
 <p>Rangeland Rescue PREDATOR Prevention</p>	 <p>Rangeland Rescue DISASTER Prevention</p>	 <p>Rangeland Rescue INVASIVE Prevention</p>
 <p>Rangeland Rescue PREDATOR Prevention</p>	 <p>Rangeland Rescue DISASTER Prevention</p>	 <p>Rangeland Rescue INVASIVE Prevention</p>
 <p>Rangeland Rescue PREDATOR Prevention</p>	 <p>Rangeland Rescue DISASTER Prevention</p>	 <p>Rangeland Rescue INVASIVE Prevention</p>
 <p>Rangeland Rescue PREDATOR Prevention</p>	 <p>Rangeland Rescue DISASTER Prevention</p>	 <p>Rangeland Rescue INVASIVE Prevention</p>

Rangeland Rescue Game Board Spaces

  	  	  	  	  	  
PREDATOR A virus has attacked your cattle. Move back 2 spaces to develop a vaccine that will save your livestock, unless you have a <i>Predator Prevention</i> card.	PREDATOR Cattle rustlers try to steal your cattle. Move back 5 spaces to wait for the sheriff to arrive, unless you have a <i>Predator Prevention</i> card.	PREDATOR A pack of wolves is circling your sheep. Go back 2 spaces to chase them away, unless you have a <i>Predator Prevention</i> card.	DISASTER Heavy rains flood your barn. Move back 2 spaces to repair the damage, unless you have a <i>Disaster Prevention</i> card.	DISASTER A drought has left your land dry and barren. Move back 1 space to purchase feed for your livestock, unless you have a <i>Disaster Prevention</i> card.	DISASTER A fire destroys your rangeland. Return to start to control the fire, unless you have a <i>Disaster Prevention</i> card.
INVASIVE Invasive plants are growing on your grazing land. Go back 1 space to pull them out, unless you have an <i>Invasive Prevention</i> card.	INVASIVE Poison oak is growing on your land. You get an itchy rash. Go back 2 spaces until the itching stops, unless you have an <i>Invasive Prevention</i> card.	INVASIVE Ground squirrels have dug holes in your land. A steer injures its leg. Go back 3 spaces to repair the holes, unless you have an <i>Invasive Prevention</i> card.	INVASIVE The invasive weed cheatgrass has taken root on your property. Go back 2 spaces until you remove it, unless you have an <i>Invasive Prevention</i> card.	  	  
  	  	  	  	  	  
A fire is easily contained because your livestock have controlled shrub growth. Move ahead 1 space.	You spot a bald eagle, a threatened species, on your property. Move ahead 2 spaces.	A neighbor has traded you a ton of hay for the use of your tractor. Move ahead 2 spaces.	Your livestock help control poison oak in an area used for recreation. Move ahead 2 spaces.	Your water supply is abundant. Move ahead 3 spaces.	Your livestock are content. Move ahead 1 space.

Range Fact Cards

<p>Range Fact</p> <p>Wildfires can threaten grazing land, structures, and livestock herds.</p> <p>True</p>	<p>Range Fact</p> <p>The management of rangeland is not related to water quality.</p> <p>False</p> <p><i>The proper management of rangeland can protect water flow and water quality.</i></p>	<p>Range Fact</p> <p>Wildlife is able to forage on well-managed rangeland.</p> <p>True</p>	<p>Range Fact</p> <p>Grazing goats can reduce the threat of wildfire on rangeland.</p> <p>True</p>
<p>Range Fact</p> <p>Rangelands provide permanent habitat for wildlife and improve water quality.</p> <p>True</p>	<p>Range Fact</p> <p>Rangeland only supports livestock animals.</p> <p>False</p> <p><i>Rangeland supports a diversity of living organisms that rely on each other for survival.</i></p>	<p>Range Fact</p> <p>Range managers only work for environmental groups.</p> <p>False</p> <p><i>Range managers work for government agencies, universities, private companies, environmental groups, and can be self-employed.</i></p>	<p>Range Fact</p> <p>Some range managers are researchers, teachers, and extension agents with colleges and universities.</p> <p>True</p>
<p>Range Fact</p> <p>Livestock grazing is one way to reduce the threat of wildfire.</p> <p>True</p>	<p>Range Fact</p> <p>Rangeland provides homes for plants, animals, and people.</p> <p>True</p>	<p>Range Fact</p> <p>Sheep, goats, and cattle prefer eating the same rangeland plants.</p> <p>False</p> <p><i>Goats prefer woody plants, cattle prefer grasses, and sheep will eat both.</i></p>	<p>Range Fact</p> <p>Forage that has been cut down in summer months will not return in fall and spring months.</p> <p>False</p> <p><i>Livestock may reduce forage in the summer but forage will return in the fall and spring.</i></p>

Range Fact Cards

<p>Range Fact</p> <p>Mammoths foraged California rangelands in 1849.</p> <p>False</p> <p><i>Mammoths foraged California rangelands 10,000 years ago, not 1849.</i></p>	<p>Range Fact</p> <p>Rangeland and pasture land are the same type of land.</p> <p>False</p> <p><i>Rangeland contains natural vegetation where pasture land is established or planted by humans.</i></p>	<p>Range Fact</p> <p>Machines are used by land managers to remove vegetation.</p> <p>True</p>	<p>Range Fact</p> <p>Cattle, sheep, llamas, and horses are all examples of livestock raised on the range.</p> <p>True</p>
<p>Range Fact</p> <p>Grasses are the only type of plant that grow on rangeland.</p> <p>False</p> <p><i>Grasses, trees, shrubs, orbs, wildflowers, and other plants grow on rangelands.</i></p>	<p>Range Fact</p> <p>Native American communities have managed and tended California rangeland.</p> <p>True</p>	<p>Range Fact</p> <p>Grazing livestock are carnivores, they eat mainly meat.</p> <p>False</p> <p><i>Grazing livestock are herbivores, designed for eating only plant materials.</i></p>	<p>Range Fact</p> <p>Livestock have taste preferences</p> <p>True</p>
<p>Range Fact</p> <p>Rangeland and livestock operations provide us with butter, cheese, milk, lamb and beef.</p> <p>True</p>	<p>Range Fact</p> <p>Rangeland is not a good habitat for threatened species.</p> <p>False</p> <p><i>More than half of the species considered "endangered" or "threatened" live on rangelands.</i></p>	<p>Range Fact</p> <p>The amount of rangeland in California is increasing.</p> <p>False</p> <p><i>As California's population grows, more rangeland is being converted to homes, businesses, and other infrastructure.</i></p>	<p>Range Fact</p> <p>Virtually all of the water consumed by California residents flows through rangeland.</p> <p>True</p>

Rangeland Rescue Game Design Grading Rubric

Evaluator's Name: _____

Designers: _____

Circle the appropriate description for the project you are evaluating.

	10 Points	8 Points	6 Points	4 Points	2 Points
Game Board	Game board is neat, colorful, and creative.	Game board is colorful and creative, but lacks precision.	Game board is creative, but lacks color and precision.	Game board has little creativity, color, and attention to detail.	Game board has no color and no extra efforts were made at creativity.
Path	Path is clear, easy to follow, and challenging.	Path is a little confusing, but is still challenging.	Path is somewhat confusing or design caused players to get “stuck” once or twice.	Path is somewhat confusing or design caused players to get “stuck” often.	Path is very confusing and difficult to follow.
Game Pieces	Game pieces are neat, colorful, creative, and free-standing.	Game pieces are colorful, creative, and free-standing.	Game pieces are colorful and creative. They are not free-standing.	Game pieces are colorful. They are not free-standing.	Game pieces have little color and creativity. They are not free-standing.

Total points:	Comments: _____

