

resource it needs, it dies and becomes a resource for the next round. If resources are not used, they remain a resource for the next round.

One or two students in each class will be needed to count the numbers of deer and resources for each round. They are the data trackers. Students can take turns being data trackers if they want to play in the game as deer and resources.

What do you predict will happen to the population of the deer if...

1. food is abundant?
2. a natural disaster destroys the deer's shelter?
3. water is scarce (drought)?

LIMITING RESOURCES

After the first three or four rounds, the teacher will start calling other things when the round starts instead of "Go!" They are listed below with their meanings...

- "Famine!": this means that food is not available. If you are a resource that signals food, you cannot play but instead must sit down for this round. If you are a deer looking for food, you do not survive and become a resource.
- "Drought!": this means that water is not available. If you are a resource that signals water, you cannot play but instead must sit down for this round. If you are a deer looking for water, you do not survive and become a resource.
- "Fire!": this means that shelter is not available. If you are a resource that signals shelter, you cannot play but instead must sit down for this round. If you are a deer looking for shelter, you do not survive and become a resource.

PREDATORS

At some point in the game, the teacher will also introduce predators. If you are asked to be a wolf, you are now a predator of the deer. Wolves will have to start in the wolf den, not on the lines with the deer or the resources. When the teacher yells "Go!" the wolves can leave the wolf den to hunt the deer. When hunting the deer, the wolves are only allowed to skip or hop - they cannot run. If the wolf catches a deer, the deer dies and becomes a wolf for the next round. If a wolf does not catch a deer, the wolf dies and becomes a resource for the next round. The data trackers will also count the number of wolves in each round.

What do you predict will happen to the population of the deer if...

4. the wolf population increases?
5. the wolf population decreases?