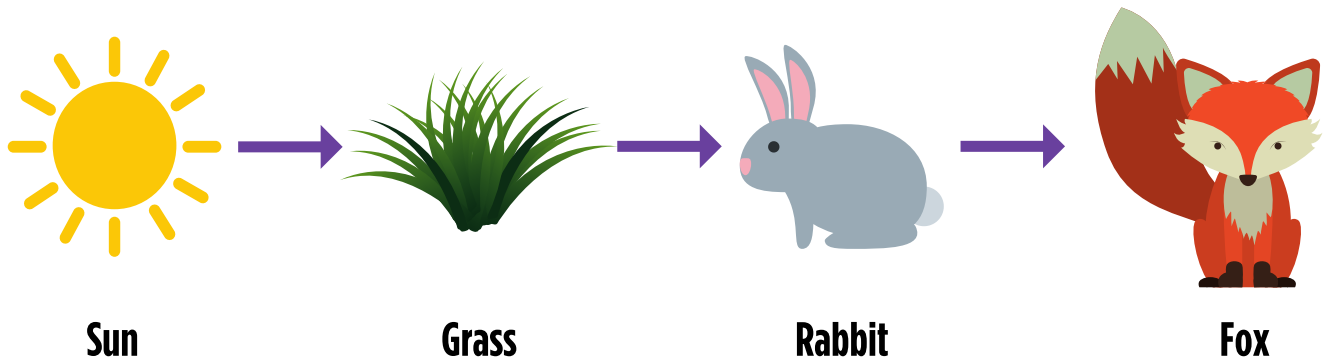


Energy from the Sun

Food that all animals eat was originally energy from sunlight.

Here is why:

- The sun shines - Energy from the sun hits plants.
- Plants grow - They use energy from the sun to grow.
- Animals eat plants - They use the energy from the plant to grow.
- Animals eat animals - They use the energy from the animal to grow.
- Here is an example of how animals' food starts off as energy from the sun!



Creating a Device to Mix Rations

You will mix different ingredients together to make a ration. This ration will then be fed to the animals.

Then, you will create a device to mix the ration together!

Step One: Create a Ration

Choose one of each of the ingredients below to create your ration!

Pick a Protein

Protein is important because it helps the animals build muscle. Choose one of the following ingredients. Circle your choice.



Corn



Oatmeal



Wheaties

Pick a Fat

Fat is important because it gives animals energy. It also helps animals gain weight. Choose one of the following ingredients. Circle your choice.



Bread Chunks



Sunflower Seeds



Dry Beans

Protecting Animals

Pick a Supplement

A supplement is an extra ingredient that is added. The supplement will make the food look more appealing to the animal because it will be colorful! Choose one of the following ingredients. Circle your choice.



M & M's



Nerds



Sprinkles

Step Two: Create a Mixing Device

You will now create a device to mix all of your chosen ingredients together and create a ration for your animals at the wildlife refuge!

Your device must meet the following requirements:

- Have a chute for each of the 3 ingredients to go down into the mixing bowl.
- Have a moving mixing device to mix all the ingredients together.
- Have lines inside the mixing basin to measure how much total ration has been made.

Brainstorm your ideas for your device below:

Step Three: Get materials from your teacher and build your mixing device!