

Where's the energy?

Food chains



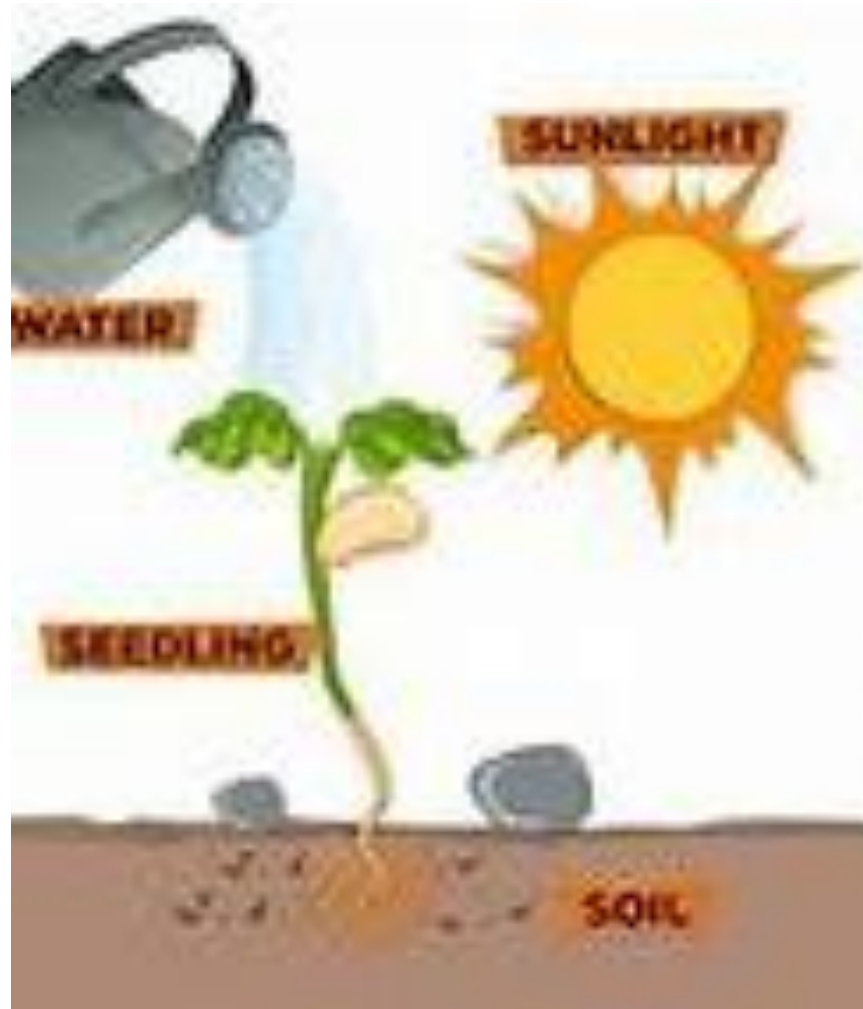
- A *food chain* shows the order in which living things, depend on each other for food.
- We start with the sun and living things that make their own food, such as plants. These are producers.
- Animals that eat plants or other animals are consumers. Secondary and tertiary consumers eat other animals. Decomposers break down tissues adding nutrients to the soil so that new plants may grow.



In any ecosystem there are many food chains and, and most plants and animals are part of several chains. All the chains together are a food web.

Every living plant and animal needs energy to survive. Plants get energy from soil, water, and the sun. Animals get energy from eating plants and other animals.










A food chain show how different living things get energy, starting out with a plant and ending with an animal.



We get food from different things—animals and plants. Animals and plants need sun and water and air and a safe place to grow. Different animals eat different things. We call animals that eat plants *herbivores*. We call animals that eat meat *carnivores*. We call animals that eat insects, *insectivores*. We call animals that eat different kinds of foods *omnivores*.

Worksheet 18: Animal groups (upper) with examples

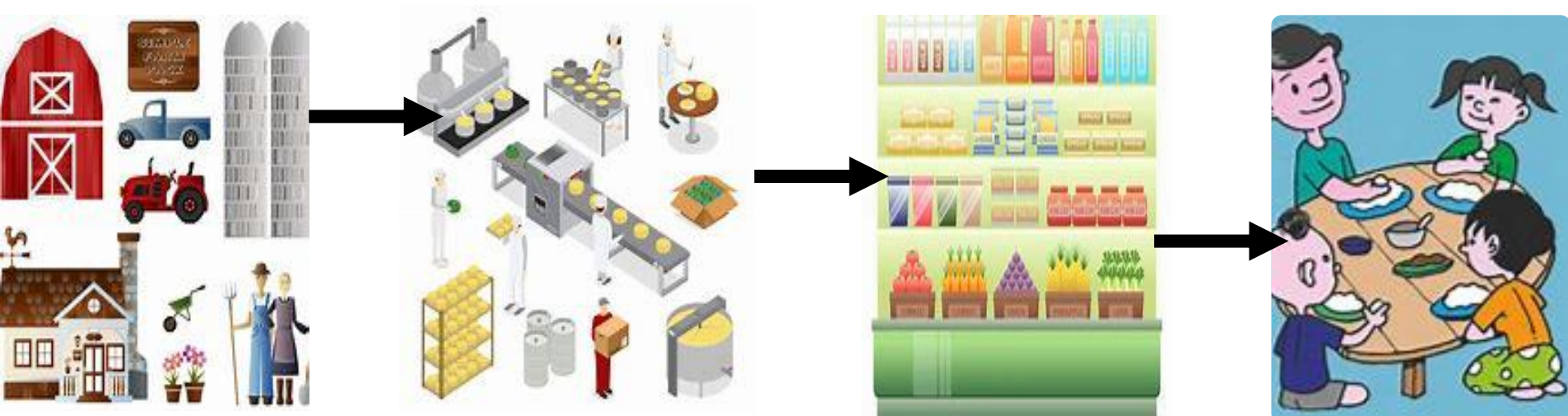
Name: _____

HERBIVORE, CARNIVORE, OR OMNIVORE		
Herbivore A plant or animal that eats plants ONLY.	Carnivore A plant or animal that eats animals ONLY.	Omnivore A plant or animal that eats both plants and animals.
  	  	  

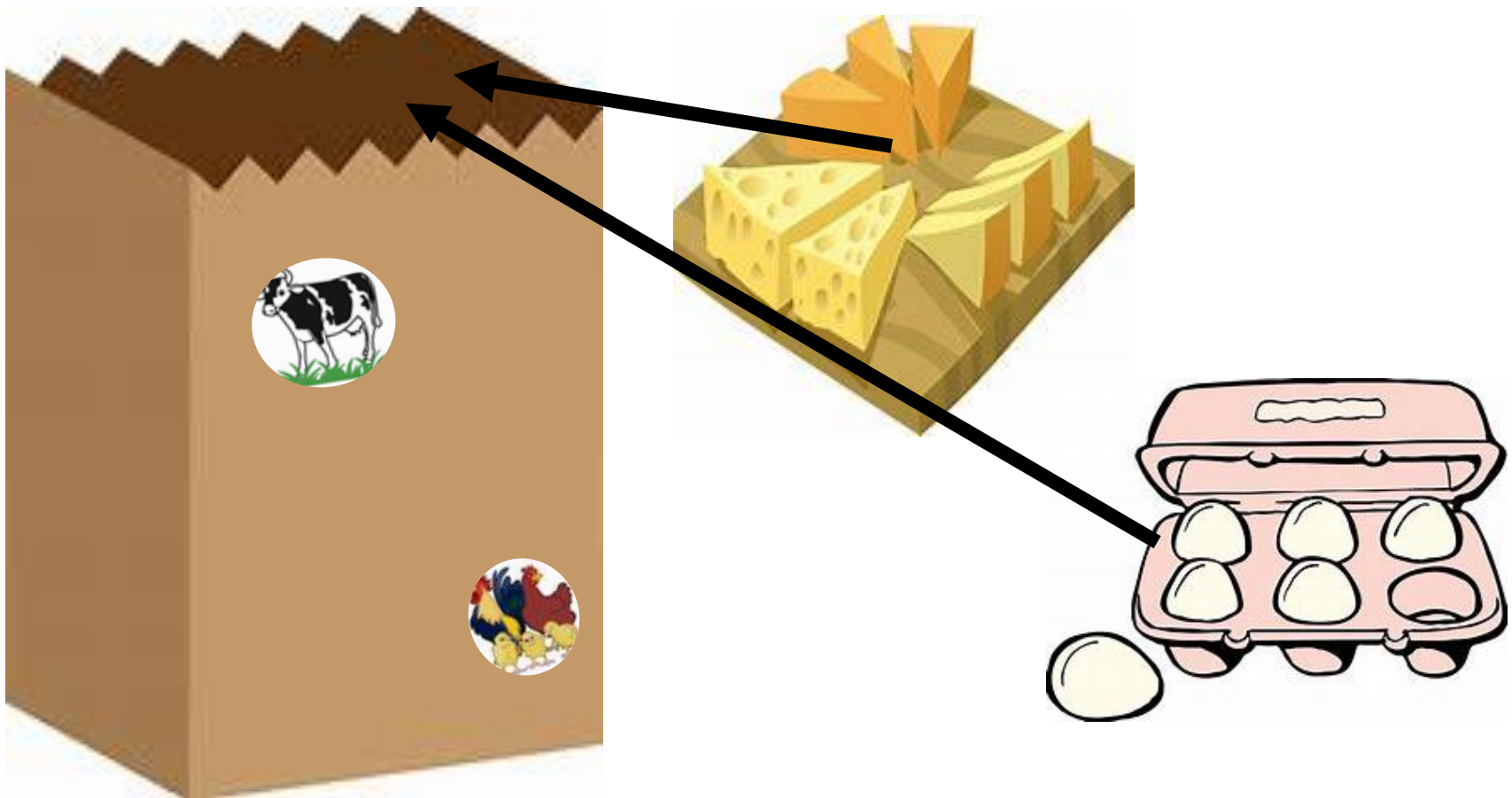
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There are other kinds of relationships in the ways we get food to our plates.

- Food travels from farms and orchards to factories.
- At the factory food is processed and packaged.
- Then the food travels to grocery stores.
- We shop in grocery stores to buy food.
- We bring the groceries home to our houses.
- We prepare the food and eat it—yum!



Make a bag decorated with animal pictures and put in pictures of eggs, cheese, luncheon meat which come from animals. Make a bag decorated with trees and put in pictures of nuts, oranges and orange juice. Make a bag decorated with grain and put in pictures of bread slice and cereal. Make a bag decorated with vegetables and put in pictures of carrots and cucumbers.





Finger-foods!



Animals and plants give us
foods to eat, (hand to mouth)

Give us energy to grow our
hands and feet! (touching
hands and feet)



Where's the Energy?

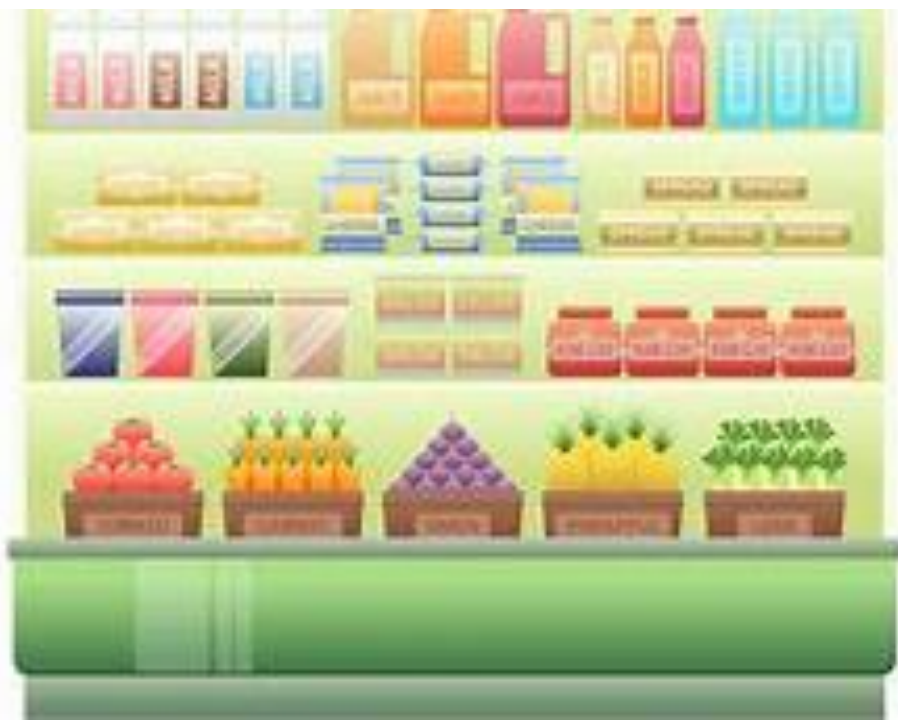


Plant eaters eat leaves and seeds. (arm up with hand flapping)

Insect eaters eat things with wings. (both hands flapping at chest)

Meat eaters eat animals (growling)

And omnivores all kinds of things! (hands circling)



Sources of energy:

- Sun to plants
- Plants to animals
- Food processing
- Stores
- Shopping

Where's the Energy?

Sung to *Frere Jacques*



Where's the energy?

Where's the energy?

In the food,

In the food.

I am eating fruit and meat,

Vegetables and dairy's
neat,

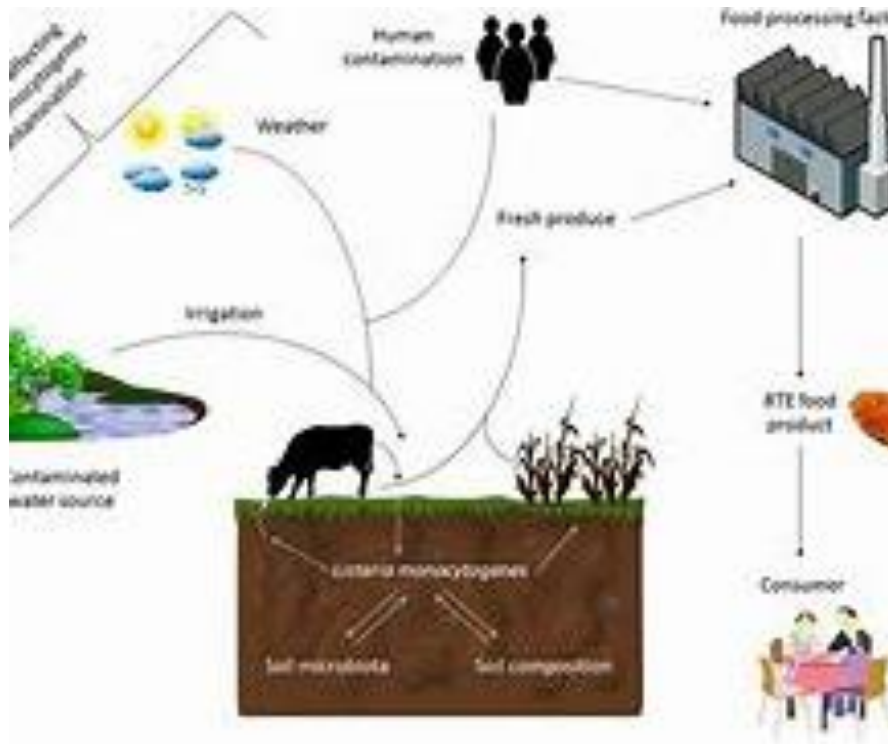
And some grains,

And some grains.

You can sing the *Growing Song* to the tune of *Are you Sleeping?*
We need food and (hand to mouth)
We need water and (cupped hand to mouth)
We need drinks. (cupped hand),
Lots of food (arms way out),
To help our bodies grow (bending down and reaching up on tiptoes)
From our heads down to our toes (touching head and toes)
Grow, grow, grow
Grow, grow, grow. (down and up 6 times)

Adapted from <http://www.childfun.com/index.php/activity-themes/food/219-nutrition-activity-theme.html#sthash.3KZpV8vo.dpuf>





From Sun

To table!



The sun's where energy will
be found,

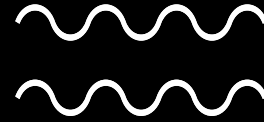
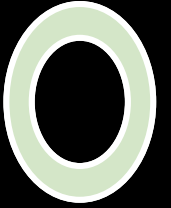




To help the plants grow
all around.



Farmers plant them in a row.



Plants make food for us
to grow.





Trucks bring food to the store.





So, we can eat more and more!



You can do an energy walk!

Take a walk to find possible foods in the woods—leaves, nuts, berries, insects, animals, birds.



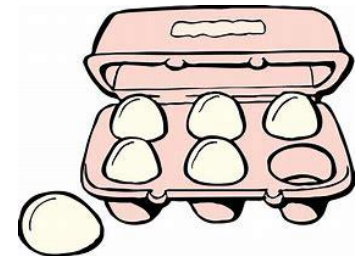
You can do a food chain walk.

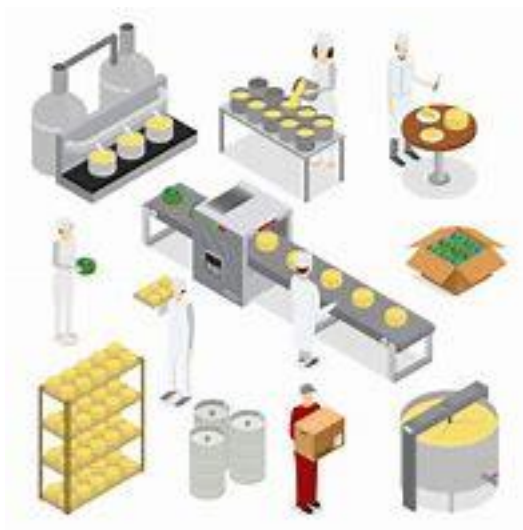
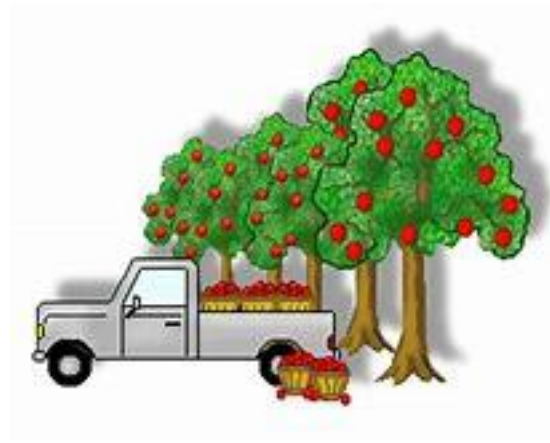
First make your collecting bag.

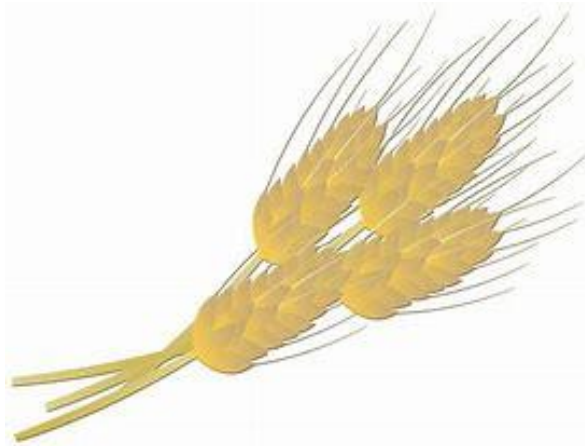
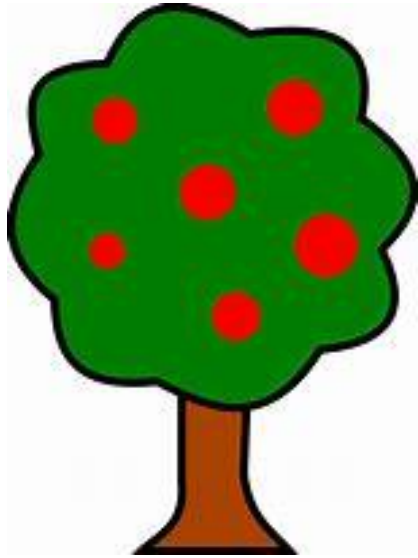
Cut out the pictures of the farm, orchard, food processing plant and store and glue them on your bag.

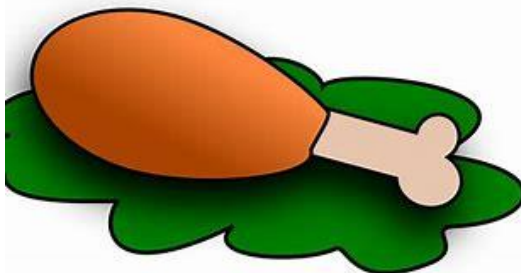
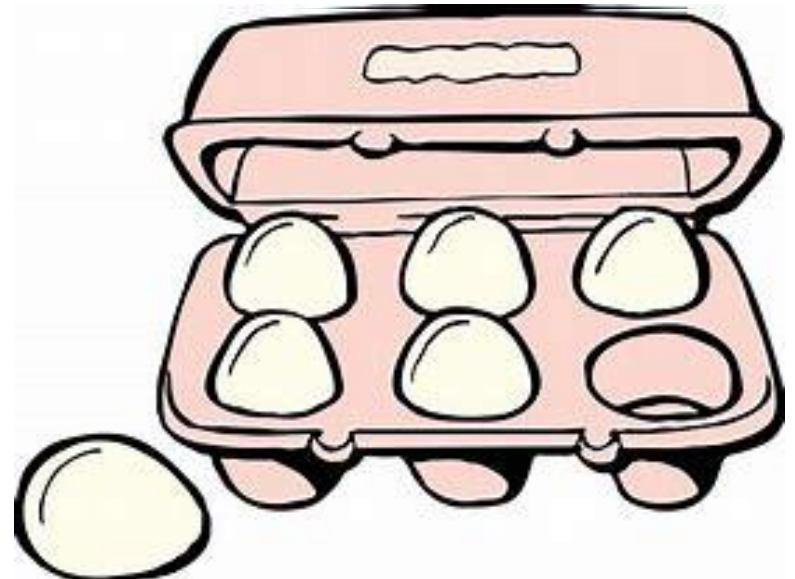
Then cut out the pictures of the plants and animals that produce the food and the foods.

Scatter the pictures around the house and collect them in you bag.



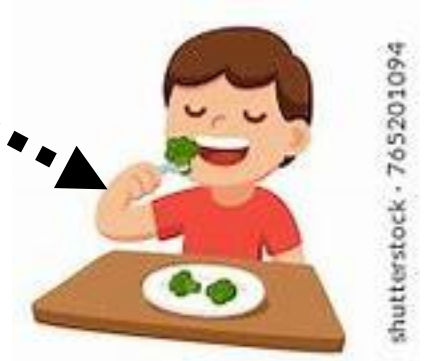
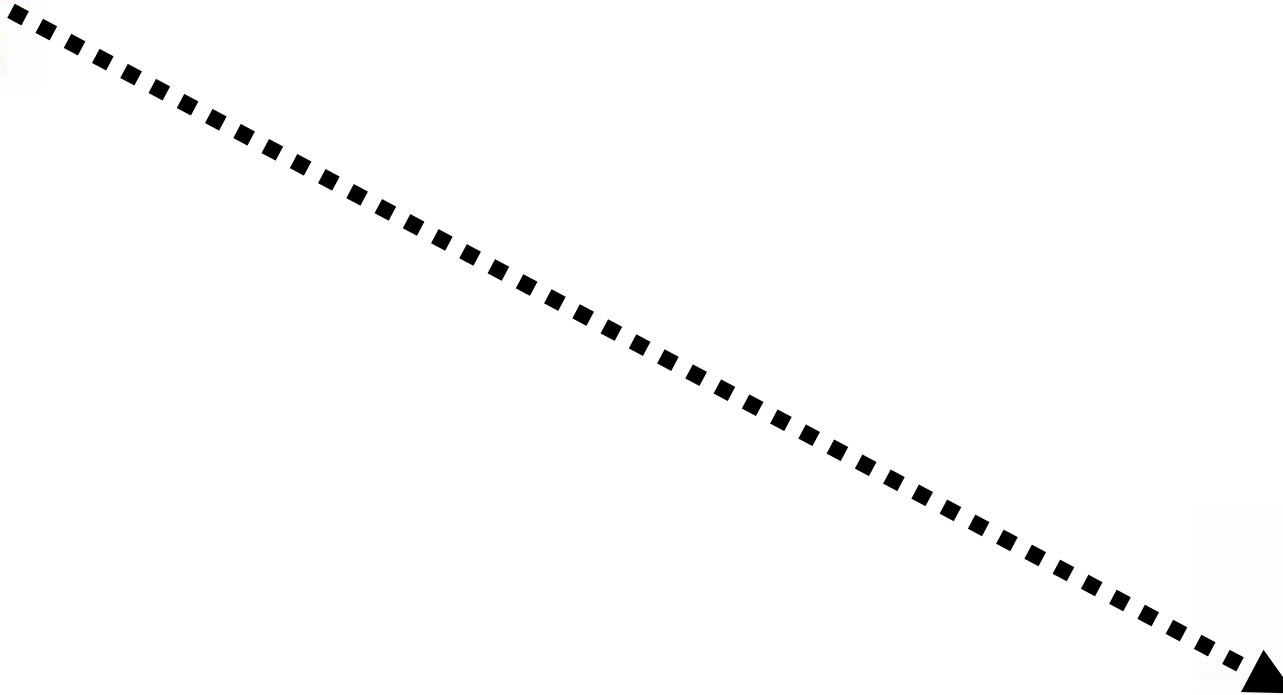
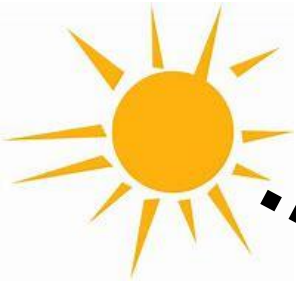




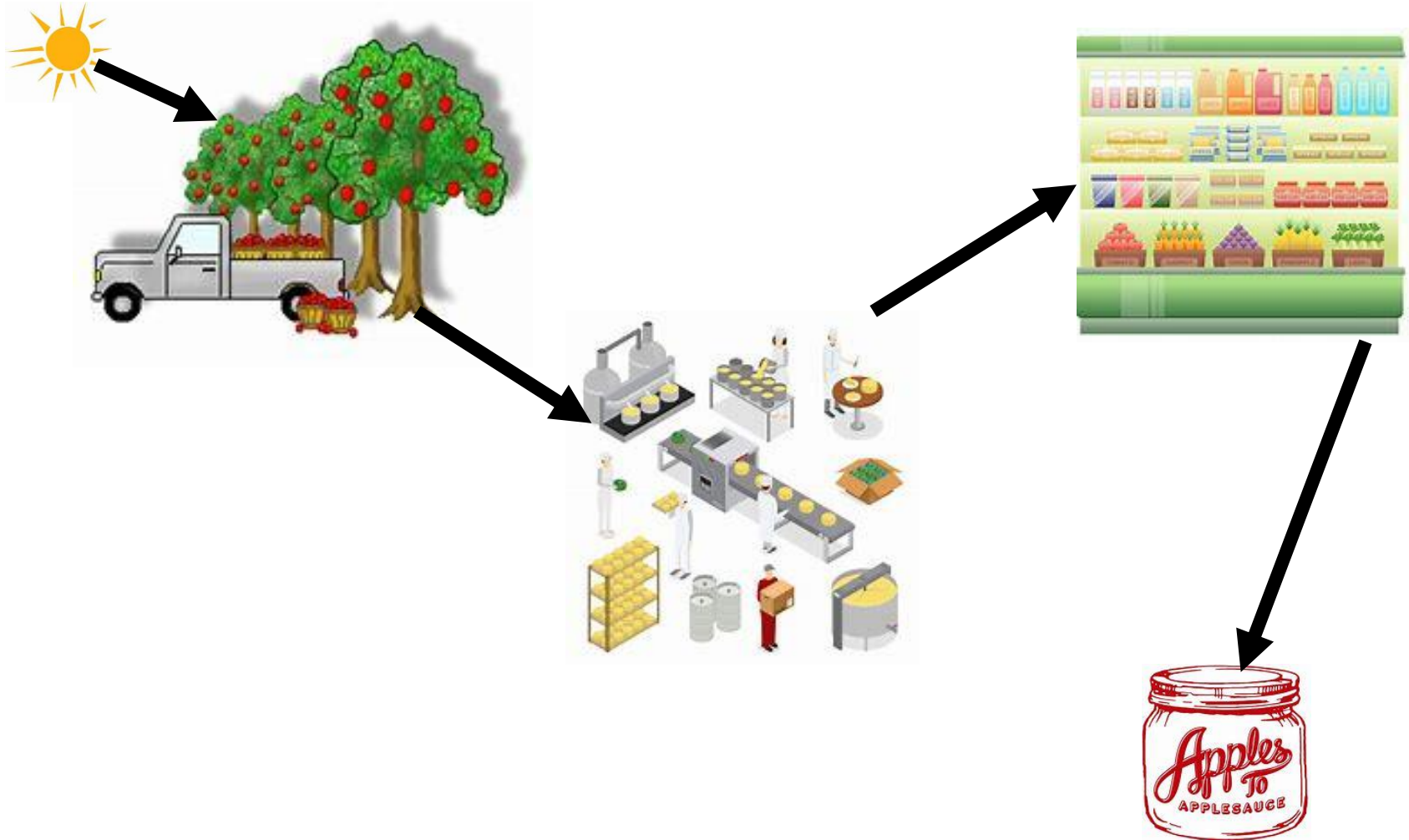


Now you can make a food chain craft.

Make a sun to table food chain—start with the farm and orchard—the truck and factory—the store and shopper—to the table in the home!



Be an energy snack investigator!
Discover the food chain in your snack!



You can make a mini-book!

1. Fold the paper in half
2. Then in half again.

