Name: _____ Date: _____

Catching Drinking Water Out of Fog

Circle group

Some places are very dry and get almost no rain. But fog rolls in again and again. People there have a way to catch water out of the air. They use fog nets.

A fog net is a big, thin screen of mesh. It is stretched between two tall posts. It looks like a giant volleyball net. Wind pushes fog through the mesh. Tiny drops of water stick to the strands. More drops join together and grow bigger. They get too heavy to hang on. They run down the net into a long trough.

From the trough, the water flows through pipes into a tank. Villages use it for drinking, washing, and watering gardens and young trees.

Fog is a cloud that touches the ground. A net cannot make water from nothing. It only gathers water already in the air. It works best on hills where wind carries fog. A fog net has no electric pump, so it costs little to run.

Questions

1. What is a fog net?

_____

_____

2. What happens to the tiny drops on the mesh?

_____

_____

3. Where does the water go after the trough?

_____

_____

4. What do villages use the water for?

_____

_____

5. Why does a fog net work best where wind carries fog?

_____

_____

6. Why does a fog net cost little to run?

_____

_____

Words to know

fog: a cloud of tiny water drops close to the ground
mesh: a net made of strands with small gaps between them
trough: a long, narrow container that holds or carries water

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

Catching Drinking Water Out of Fog

Triangle group

Some places are very dry, with almost no rain, yet fog rolls in again and again. People in these places have found a way to catch water right out of the air. They use fog nets.

A fog net is a large, thin screen of mesh, stretched between two tall posts. It looks a bit like a giant volleyball net. When wind pushes fog through the mesh, tiny droplets of water stick to the strands. More and more droplets join together until they form bigger drops. The drops are too heavy to hang on, so they run down the net into a long trough at the bottom.

From the trough, the water flows through pipes into a tank. Villages can use it for drinking, for washing, and for watering gardens and young trees.

Fog is really a cloud that is touching the ground. A net cannot make water out of nothing. It only gathers water that is already floating in the air. The method works best on hills or mountains that the wind carries fog toward. A fog net uses no electric pump, so once it is built, it costs very little to run.

Questions

1. What is a fog net?

_____

_____

2. What happens to the tiny droplets when they stick to the mesh?

_____

_____

3. Where does the water go after the trough?

_____

_____

4. What do villages use the water for?

_____

_____

5. Why does a fog net work best where wind blows fog toward it?

_____

_____

6. Why does a fog net cost little to run once it is built?

_____

_____

Words to know

fog: a cloud of tiny water drops close to the ground
mesh: a net made of strands with small gaps between them
droplets: very small drops of liquid
trough: a long, narrow container that holds or carries water

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

Catching Drinking Water Out of Fog

Square group

Certain regions are extremely dry and receive almost no rainfall, yet fog drifts in over and over again. The people who live there have discovered a way of capturing water directly from the air. They use devices called fog nets.

A fog net is a large, delicate screen of mesh stretched between two tall posts, rather like an enormous volleyball net. When the wind pushes fog through the mesh, minuscule droplets of water cling to the strands. More and more droplets merge until they form larger drops, which eventually become too heavy to hang on and run down the net into a long trough at the bottom.

From the trough, the water travels through pipes into a storage tank. Villagers can use it for drinking and washing, and for watering their gardens and young trees.

Fog is really a cloud that is resting on the ground. A net cannot create water out of nothing; it merely collects the water that is already floating in the air. The method works best on hills or mountains toward which the wind carries fog. Since a fog net needs no electric pump, it costs very little to operate once it has been built.

Questions

1. What is a fog net?

_____

_____

2. What happens to the droplets that cling to the mesh?

_____

_____

3. Where does the water travel after the trough?

_____

_____

4. What do villagers use the water for?

_____

_____

5. Why does a fog net work best where the wind carries fog toward it?

_____

_____

6. Why does a fog net cost little to operate once it is built?

_____

_____

Words to know

fog: a cloud of tiny water drops close to the ground
mesh: a net made of strands with small gaps between them
droplets: very small drops of liquid
trough: a long, narrow container that holds or carries water

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

For the teacher: Catching Drinking Water Out of Fog

Each student sheet carries a shape, not a level. The same topic and facts, written three ways.

Circle: Catching Drinking Water Out of Fog

Easier · 162 words · Flesch-Kincaid grade 2.6

1. A big, thin screen of mesh between two posts that catches water from fog.
2. They join into bigger drops that run down into a trough.
3. Through pipes into a tank.
4. Drinking, washing, and watering gardens and young trees.
5. The net only gathers water that moves through it, so fog must keep coming.
6. It has no electric pump.

Triangle: Catching Drinking Water Out of Fog

This passage · 194 words · Flesch-Kincaid grade 4.5

1. A large, thin screen of mesh stretched between two posts that catches water from fog.
2. They join into bigger drops that run down into a trough.
3. Through pipes into a tank.
4. Drinking, washing, and watering gardens and young trees.
5. The net only gathers water that moves through it, so it needs fog to keep coming.
6. It uses no electric pump.

Square: Catching Drinking Water Out of Fog

Harder · 199 words · Flesch-Kincaid grade 7.5

1. A large screen of mesh stretched between two posts that captures water from fog.
2. They merge into larger drops that run down into a trough.
3. Through pipes into a storage tank.
4. Drinking, washing, and watering gardens and young trees.
5. It only collects water that passes through it, so it needs fog to keep arriving.
6. It needs no electric pump.