

Do It



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Do It



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Do It



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Do It



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Get wet.

Get wet.

Get wet.

Get wet.

Sit in the mud.

Sit in the mud.

Sit in the mud.

Sit in the mud.

Run in the fog.

Run in the fog.

Run in the fog.

Run in the fog.

Dig in the sod.

Dig in the sod.

Dig in the sod.

Dig in the sod.

Sit on a log as it rots.

Sit on a log as it rots.

Sit on a log as it rots.

Sit on a log as it rots.

Get to the top.

Get to the top.

Get to the top.

Get to the top.

What is it?



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What is it?



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What is it?



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What is it?



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A hand can grab it.

A hand can grab it.

A hand can grab it.

A hand can grab it.

I can trap it.

I can trap it.

I can trap it.

I can trap it.

It flaps a flag.

It flaps a flag.

It flaps a flag.

It flaps a flag.

It slips into a jug.

It slips into a jug.

It slips into a jug.

It slips into a jug.

It is in the wind.

It is in the wind.

It is in the wind.

It is in the wind.

It lifts a jet. What is it?

It lifts a jet. What is it?

It lifts a jet. What is it?

It lifts a jet. What is it?

This



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This



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This



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This



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This drips in droplets that will splash.

This drips in droplets that will splash.

This drips in droplets that will splash.

This drips in droplets that will splash.

This fills a glass and will spill
if the glass gets full.

This fills a glass and will spill
if the glass gets full.

This fills a glass and will spill
if the glass gets full.

This fills a glass and will spill
if the glass gets full.

This is a solid if it gets too chilled.

This is a solid if it gets too chilled.

This is a solid if it gets too chilled.

This is a solid if it gets too chilled.

If this is cold and it gets crushed, it will crunch.

If this is cold and it gets crushed, it will crunch.

If this is cold and it gets crushed, it will crunch.

If this is cold and it gets crushed, it will crunch.

This shifts into a gas if it gets hot.

This shifts into a gas if it gets hot.

This shifts into a gas if it gets hot.

This shifts into a gas if it gets hot.

This is mist and fog. What is this?

This is mist and fog. What is this?

This is mist and fog. What is this?

This is mist and fog. What is this?

The Rotting Log



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The Rotting Log



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The Rotting Log



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A log is rotting. It is a trunk
that fell in the wind.

A log is rotting. It is a trunk
that fell in the wind.

A log is rotting. It is a trunk
that fell in the wind.

A log is rotting. It is a trunk
that fell in the wind.

Insects are picking at the log and snacking on it.

Insects are picking at the log and snacking on it.

Insects are picking at the log and snacking on it.

Insects are picking at the log and snacking on it.

Fungi spring up along the log. The log is shrinking.

Fungi spring up along the log. The log is shrinking.

Fungi spring up along the log. The log is shrinking.

Fungi spring up along the log. The log is shrinking.

Rain slinks into cracks and splits the log into chunks.

Rain slinks into cracks and splits the log into chunks.

Rain slinks into cracks and splits the log into chunks.

Rain slinks into cracks and splits the log into chunks.

The bits of log that are left are gunk sinking in the mud.

The bits of log that are left are gunk sinking in the mud.

The bits of log that are left are gunk sinking in the mud.

The bits of log that are left are gunk sinking in the mud.

This log gunk is mixing with all the rotting things making topsoil. Topsoil will help plants get big and strong.

This log gunk is mixing with all the rotting things making topsoil. Topsoil will help plants get big and strong.

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Explore Land and Water



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It is time to explore a place
you have not gone before.
You come to a dune and
go up its slope.

It is time to explore a place
you have not gone before.
You come to a dune and
go up its slope.

It is time to explore a place
you have not gone before.
You come to a dune and
go up its slope.

It is time to explore a place
you have not gone before.
You come to a dune and
go up its slope.

There is a shore. But, there is fog and you cannot see the other side.

There is a shore. But, there is fog and you cannot see the other side.

There is a shore. But, there is fog and you cannot see the other side.

There is a shore. But, there is fog and you cannot see the other side.

You do see the tops of
some pines. The water is
not deep and there are no
waves. You wade in to find
that land.

You do see the tops of
some pines. The water is
not deep and there are no
waves. You wade in to find
that land.

You do see the tops of
some pines. The water is
not deep and there are no
waves. You wade in to find
that land.

You do see the tops of
some pines. The water is
not deep and there are no
waves. You wade in to find
that land.

It is close. You arrive at the land with the pines as the Sun begins to shine.

It is close. You arrive at the land with the pines as the Sun begins to shine.

It is close. You arrive at the land with the pines as the Sun begins to shine.

It is close. You arrive at the land with the pines as the Sun begins to shine.

The fog is gone. You can see water on all sides.

The fog is gone. You can see water on all sides.

The fog is gone. You can see water on all sides.

The fog is gone. You can see water on all sides.

The shore of the dunes is
a ring. You made it to an
island in a lake!

The shore of the dunes is
a ring. You made it to an
island in a lake!

The shore of the dunes is
a ring. You made it to an
island in a lake!.

The shore of the dunes is
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island in a lake!

Rainy Day



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On a rainy day, you watch
big rain drops hit the
window. The beads flow to
the sill leaving a tiny trail.

On a rainy day, you watch
big rain drops hit the
window. The beads flow to
the sill leaving a tiny trail.

On a rainy day, you watch
big rain drops hit the
window. The beads flow to
the sill leaving a tiny trail.

On a rainy day, you watch
big rain drops hit the
window. The beads flow to
the sill leaving a tiny trail.

The drops slowly drip. They
soak into the grass and
earth below. Soon, it is
muddy.

The drops slowly drip. They
soak into the grass and
earth below. Soon, it is
muddy.

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You do not want to stay inside, so you grab a rain coat, cross the street, and go up the hill to a creek close by.

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You do not want to stay inside, so you grab a rain coat, cross the street, and go up the hill to a creek close by.

The creek bed is often pretty dry, but today the rain is making the creek grow. The creek moves swiftly as it swells.

The creek bed is often pretty dry, but today the rain is making the creek grow. The creek moves swiftly as it swells.

The creek bed is often pretty dry, but today the rain is making the creek grow. The creek moves swiftly as it swells.

The creek bed is often pretty dry, but today the rain is making the creek grow. The creek moves swiftly as it swells.

The creek flows to a place that is low. It carries its water to a lake in a valley just a bit away.

The creek flows to a place that is low. It carries its water to a lake in a valley just a bit away.

The creek flows to a place that is low. It carries its water to a lake in a valley just a bit away.

The creek flows to a place that is low. It carries its water to a lake in a valley just a bit away.

If the rainfall is heavy or continues for days, it may bring more water than the lake can hold. The lake shore may rise and overflow.

If the rainfall is heavy or continues for days, it may bring more water than the lake can hold. The lake shore may rise and overflow.

If the rainfall is heavy or continues for days, it may bring more water than the lake can hold. The lake shore may rise and overflow.

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Soil



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Soil



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A tractor tills on a farm. It
churns up topsoil with small
claws that form long rows.
It turns up moist soil.

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claws that form long rows.
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A tractor tills on a farm. It
churns up topsoil with small
claws that form long rows.
It turns up moist soil.

This land was once a forest.
The plants and animals
that lived here long ago
died and rotted and left
their energy in the soil as
organic matter.

This land was once a forest.
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The tractor stirs up a worm that crawls quickly back below into the topsoil. The worm would have to go far down to reach the lowest layers of the soil.

The tractor stirs up a worm that crawls quickly back below into the topsoil. The worm would have to go far down to reach the lowest layers of the soil.

The tractor stirs up a worm that crawls quickly back below into the topsoil. The worm would have to go far down to reach the lowest layers of the soil.

The tractor stirs up a worm that crawls quickly back below into the topsoil. The worm would have to go far down to reach the lowest layers of the soil.

As it goes, it would encounter a layer full of minerals and small parts of rocks. This is sand or clay. A worm would not normally wander farther.

As it goes, it would encounter a layer full of minerals and small parts of rocks. This is sand or clay. A worm would not normally wander farther.

As it goes, it would encounter a layer full of minerals and small parts of rocks. This is sand or clay. A worm would not normally wander farther.

As it goes, it would encounter a layer full of minerals and small parts of rocks. This is sand or clay. A worm would not normally wander farther.

If it ventured more, it would find a layer of big rocks. It takes a very long time for these big rocks to break apart and get smaller and smaller to turn into sand or clay.

If it ventured more, it would find a layer of big rocks. It takes a very long time for these big rocks to break apart and get smaller and smaller to turn into sand or clay.

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Farthest down, at the very bottom, far below the surface that the tractor tills and the soil the worm normally explores, lies the bedrock. This layer is solid.

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Farthest down, at the very bottom, far below the surface that the tractor tills and the soil the worm normally explores, lies the bedrock. This layer is solid.

The Water Cycle



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The Water Cycle



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The Water Cycle



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The Water Cycle



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Drops of water fall as rain
from a cloud high in the
sky.

Drops of water fall as rain
from a cloud high in the
sky.

Drops of water fall as rain
from a cloud high in the
sky.

Drops of water fall as rain
from a cloud high in the
sky.

The rain gets caught in a puddle. The puddle grows and flows into a stream.

The rain gets caught in a puddle. The puddle grows and flows into a stream.

The rain gets caught in a puddle. The puddle grows and flows into a stream.

The rain gets caught in a puddle. The puddle grows and flows into a stream.

The little stream wraps its way down a hill from the forest to the sea. The water settles in the sea.

The little stream wraps its way down a hill from the forest to the sea. The water settles in the sea.

The little stream wraps its way down a hill from the forest to the sea. The water settles in the sea.

The little stream wraps its way down a hill from the forest to the sea. The water settles in the sea.

Where its rays can reach,
the light from the Sun
warms the sea. The heated
water turns to vapor and
heads straight up in the air.

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Where its rays can reach,
the light from the Sun
warms the sea. The heated
water turns to vapor and
heads straight up in the air.

The vapor whirls about until it gets cooled. When it cools, it forms a cloud.

The vapor whirls about until it gets cooled. When it cools, it forms a cloud.

The vapor whirls about until it gets cooled. When it cools, it forms a cloud.

The vapor whirls about until it gets cooled. When it cools, it forms a cloud.

Then, drops of water fall as rain from a cloud high in the sky and the cycle starts again.

Then, drops of water fall as rain from a cloud high in the sky and the cycle starts again.

Then, drops of water fall as rain from a cloud high in the sky and the cycle starts again.

Then, drops of water fall as rain from a cloud high in the sky and the cycle starts again.

A Fern



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A Fern



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A Fern



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A Fern



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One hundred million years ago, when giant dinosaurs roamed the Earth, a large fern grew at a swamp's edge.

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One hundred million years ago, when giant dinosaurs roamed the Earth, a large fern grew at a swamp's edge.

The fern collected energy from the Sun and pulled in a gas from the atmosphere called carbon dioxide to make its food.

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The fern collected energy from the Sun and pulled in a gas from the atmosphere called carbon dioxide to make its food.

As all plants do, the huge fern died. It sank to the swamp's bottom. Over time, it got covered as the swamp's plants aged and died and settled above it.

As all plants do, the huge fern died. It sank to the swamp's bottom. Over time, it got covered as the swamp's plants aged and died and settled above it.

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As all plants do, the huge fern died. It sank to the swamp's bottom. Over time, it got covered as the swamp's plants aged and died and settled above it.

The Earth's surface shifted and rocks covered the swamp. Then, an ocean swept into where the swamp once stood.

The Earth's surface shifted and rocks covered the swamp. Then, an ocean swept into where the swamp once stood.

The Earth's surface shifted and rocks covered the swamp. Then, an ocean swept into where the swamp once stood.

The Earth's surface shifted and rocks covered the swamp. Then, an ocean swept into where the swamp once stood.

The weight of the rocks and the ocean compressed the layer where the swamp's plants rested. Over millions of years, the carbon they stored went through changes and was converted to coal.

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The weight of the rocks and the ocean compressed the layer where the swamp's plants rested. Over millions of years, the carbon they stored went through changes and was converted to coal.

This coal is now used as an energy source. We mine it and burn it in power plants and some engines. This sends the carbon from that one hundred million year old fern back into the atmosphere.

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