

How Plants Grow

An Integrated Science Unit That Includes:
Reading, Writing, Phonics, and Math

This 32 Page Unit Contains:

- Reading:** "How Plants Grow"
A 6 page readable and scientifically accurate book about how plants grow through the self production of food.
• 2 student sized versions with 1-3 sentences per page.
- Writing:** Pages for children to write about what they have learned. The first page includes an information section for parents.
- Writing:** Writing pages, including a word bank, where children can plan for the planting of seeds in the classroom, using their new knowledge.
- Phonics / Reading:** A page that expands key words into word families and uses that new vocabulary in a simple story.
- Math:** 2 pages of addition and subtraction to 9 & 10 with a plant theme.
- Math/Reading:** 1 page of story problems with a plant theme.
- Reading:** Word and word/picture cards that may be used to put together sentences about plants in your pocket chart.



Plants need water to grow.

Plants need the sun to grow.

Plants need soil to grow.

Plants need air to grow.

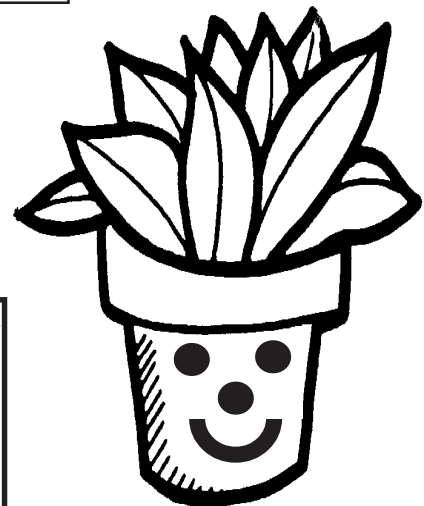
Plants need to grow.

How Plants Grow

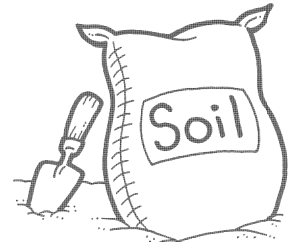
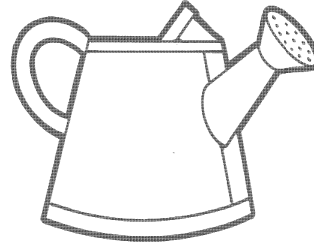
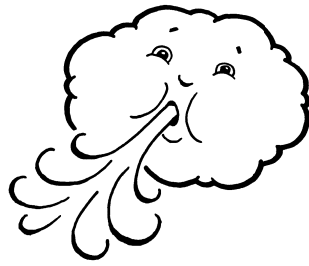
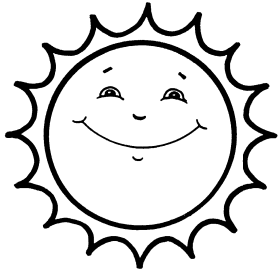
Plants stand up. They take up water for the plant.

Plants on top of the leaf. The plant make food.

Air goes under the leaf and through tiny holes called stomata. Plants use CO2 and give off oxygen.



© EZ2 READ ,
Barbara Nicholson 1-888-521-4080



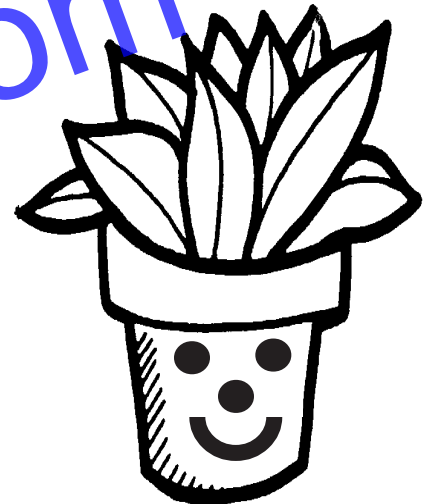
How Plants Grow

An Integrated Science Unit
That Includes:

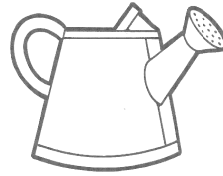
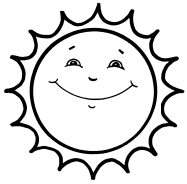
**Reading, Writing,
Phonics, and Math**

This Unit Contains:

1. **Reading:** "How Plants Grow"
A 6 page readable and scientifically accurate book about how plants grow through the self production of food.
• 2 student sized versions with 1-3 sentences per page.
2. **Writing:** Pages for children to write about what they have learned. The first page includes an information section for parents.
3. **Writing:** A page, including a word bank, where children can plan for the planting of seeds in the classroom, using their new knowledge.
4. **Phonics / Reading:** A page that expands key words into word families and uses that new vocabulary in a simple story.
5. **Math:** 2 pages of addition and subtraction to 9 & 10 with a plant theme.
6. **Math/Reading:** 1 page of story problems.
7. **Reading:** Word and word/picture cards that may be used to put together sentences in a pocket chart.



© EZ2 READ Science,
Barbara Nicholson 1-888-521-4080



How Plants Grow

© EZ2 READ Science, Barbara Nicholson 1-888-521-4080

Copyrighted material!



How Plants Grow

© EZ2 READ Science, Barbara Nicholson 1-888-521-4080

Purchase from
EZ2Read.com

Dear Parents,

This is a book we have been reading in class to learn about how plants grow. Here are some suggestions to extend the learning at home.

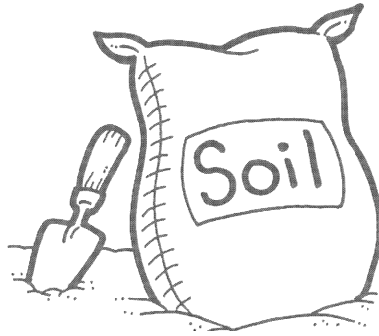
- Have your children read the book to you.
Be sure that they point to each word as they read.
- Have them retell the information in their own words.
If possible, put your child in charge of a plant in the garden or a houseplant. Discuss what care it will need and why.
- Ask questions as though some of this is new information to you.
- Share any additional information you have about plants.

Dear Parents,

This is a book we have been reading in class to learn about how plants grow. Here are some suggestions to extend the learning at home.

- Have your children read the book to you.
Be sure that they point to each word as they read.
- Have them retell the information in their own words.
If possible, put your child in charge of a plant in the garden or a houseplant. Discuss what care it will need and why.
- Ask questions as though some of this is new information to you.
- Share any additional information you have about plants.

Plants need **soil** to grow.



Soil lets the plant stand up.

Soil soaks up water for the plant.

Copyrighted material!

Purchase from
EZ2Read.com

Plants need **soil** to grow.

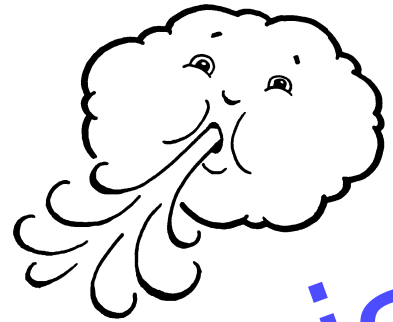
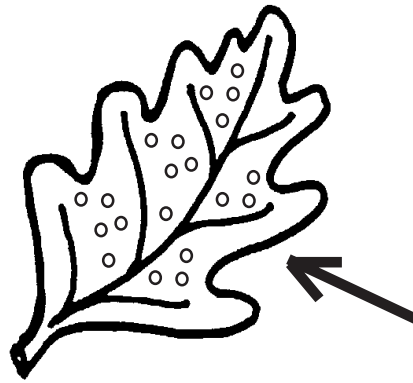


Soil lets the plant stand up.

Soil soaks up water for the plant.

Plants need air to grow.

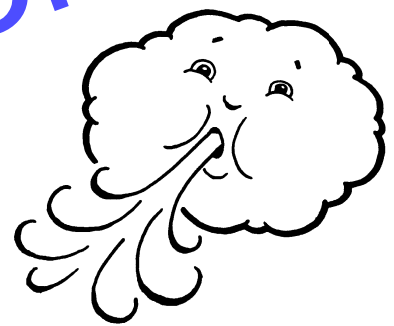
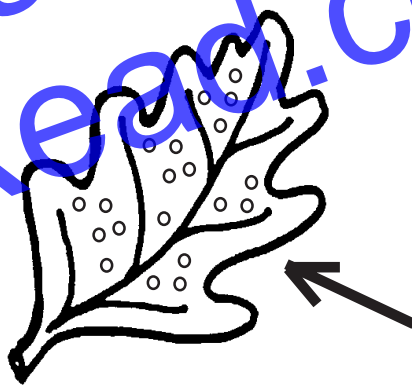
2



Air goes under the leaf and through tiny holes called **stomata**. Plants use CO_2 and give off oxygen.

Plants need air to grow.

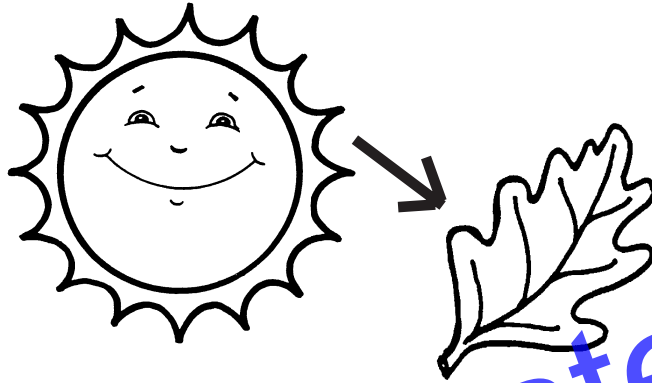
2



Air goes under the leaf and through tiny holes called **stomata**. Plants use CO_2 and give off oxygen.

Plants need the sun to grow.

3

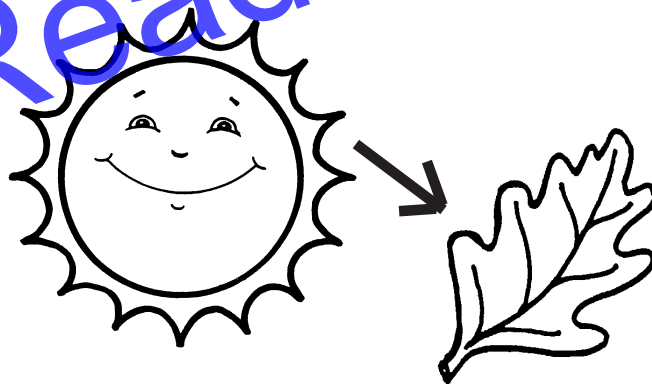


The sun shines on top of the leaf.
The sun lets the plant make food.

Plants need air to grow.

Plants need the sun to grow.

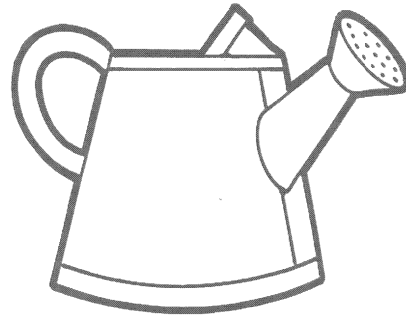
3



The sun shines on top of the leaf.
The sun lets the plant make food.

Plants need **water** to grow.

4



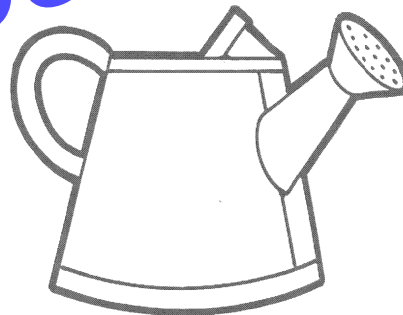
Water goes down into the soil
and up the **roots** into the plant.

Copyrighted material!

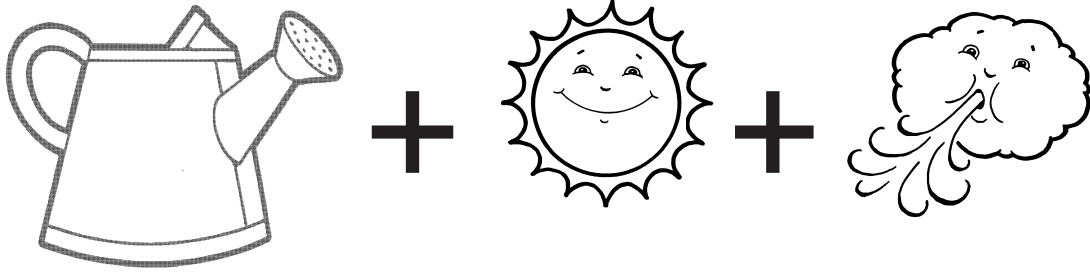
Purchase from
EZ2Read.com

Plants need **water** to grow.

4

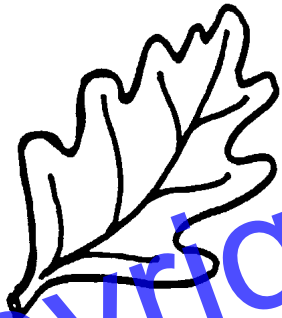


Water goes down into the soil
and up the **roots** into the plant.



The plant makes its own food in its green leaves.

It sends the **sugar-water** food all over the plant.

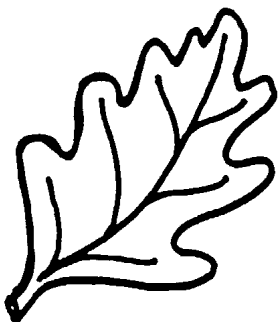


Copyrighted material!



The plant makes its own food in its green leaves.

It sends the **sugar-water** food all over the plant.



I make food in my green leaves.

6



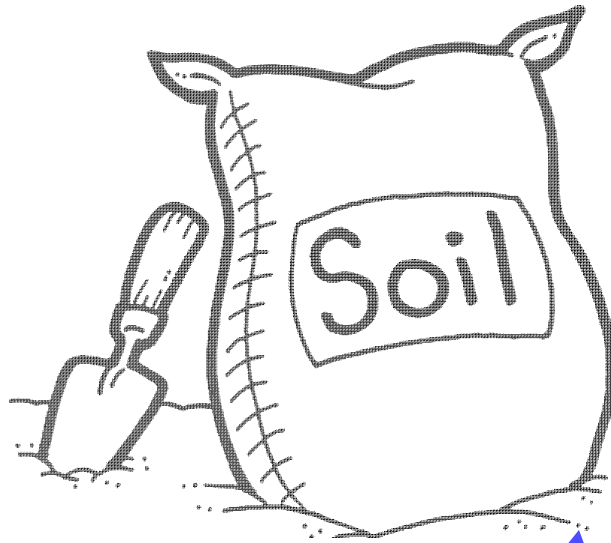
With water, sun, and CO₂ from the air, I can make my own food. I will grow and grow and grow!

I make food in my green leaves.

6



With water, sun, and CO₂ from the air, I can make my own food. I will grow and grow and grow!



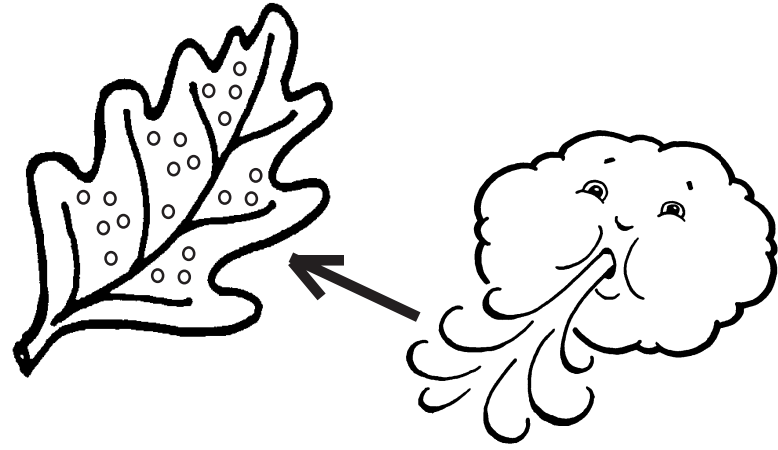
Plants need **soil**
to grow.

Copyrighted material!

Purchase from
EZ2Read.com



Plants need **soil**
to grow.



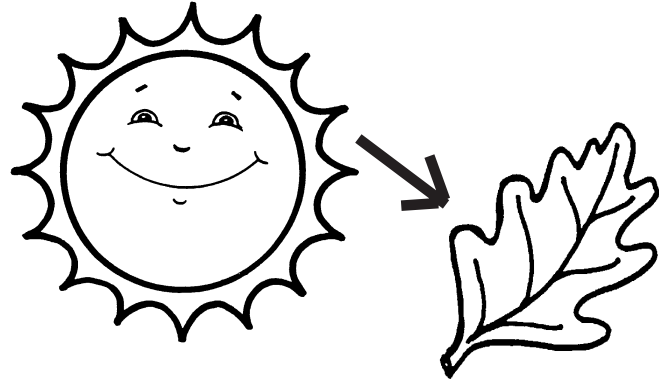
Plants need **air**
to grow.

Copyrighted material!

Purchase from
EZ2Read.com



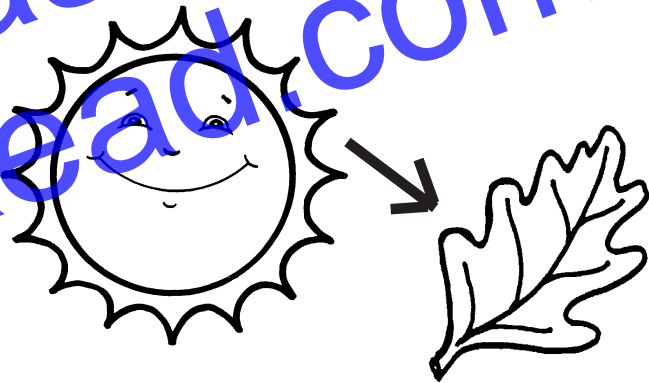
Plants need **air**
to grow.



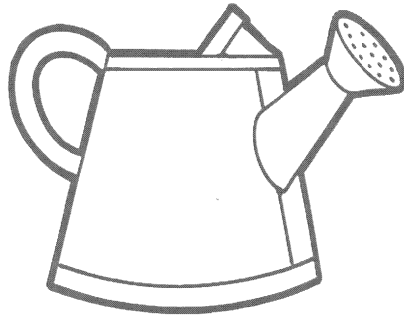
Plants need **sun**
to grow.

Copyrighted material!

Purchase from
EZ2Read.com



Plants need **sun**
to grow.



Plants need **water**
to grow.

Copyrighted material!

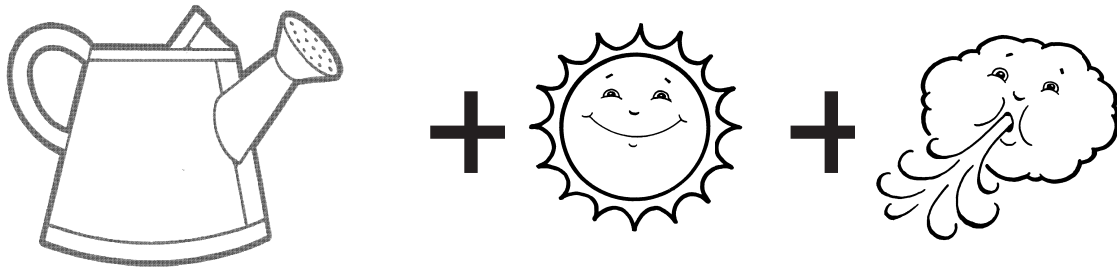
Purchase from
EZ2Read.com



Plants need **water**
to grow.

Water + Sunlight + CO₂ = **Food**

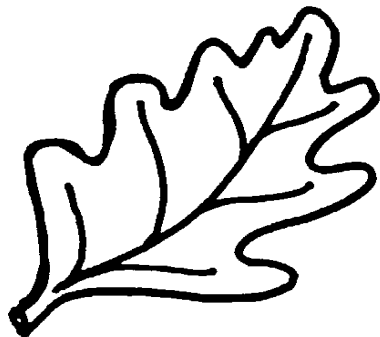
5



Plants can
make food.

Water + Sunlight + CO₂ = **Food**

5



Plants can
make food.



I make food in
my green leaves.

Copyrighted material!

Purchase from
EZ2Read.com



I make food in
my green leaves.

Name _____

How Plants Grow

Dear Parents - Have your child **read to you** what he/she wrote about how plants grow. Then ask him/her to **tell you** about what a plant needs and why. Below is a brief description of what was taught.

1. **Soil** gives the plant roots something to hold onto.
2. **Air** goes under the leaf and in through tiny holes called **stomata**. Plants use **CO₂** from the air and give off **oxygen**. (We use oxygen and give off CO₂)
3. **Sunlight** goes into the top of the leaves.
4. **Water** goes down into the soil and up the **roots** into the plant. It doesn't get in through the leaves.
5. With **water, sun** and **CO₂** from the **air**, plants can make their own **sugary food** and grow!
6. That sugary food is food for us when we eat plants.



Copyrighted material!

Purchase from
EZ2Read.com

Copyrighted material!
Purchase from
EZ2Read.com

Name _____

Separating and Recombining related whole number sets.
Seeing relationships and patterns in those sets.

I have 9 leaves. You can use math to find out how many leaves I will have left if some fall off. Then you can find out how many I will have when they grow back.



$$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

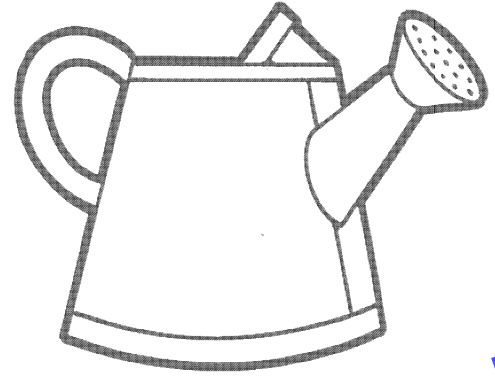
$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$

Name _____

Separating and Recombining related whole number sets.
Seeing relationships and patterns in those sets.

I hold 10 cups of water. You can use math to find out how many cups I will have left if you use some to water plants. Then you can find out how many cups I will have when you fill me back up.



$$\begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$$

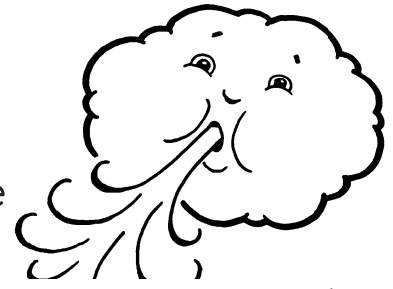
$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

Name _____

Using subtraction. Give students 9 manipulatives so they can see the 2 sets made when one set is taken away from a whole number, the related set is left.

I have 9 leaves. I will blow some away. You can use subtraction to find out how many will be left.



1. I have 9. If I blow away 1, I'll have ____ .

2. I have 9. If I blow away 3, I'll have ____ .

3. I have 9. If I blow away 5, I'll have ____ .

4. I have 9. If I blow away 7, I'll have ____ .

5. I have 9. If I blow away 9, I'll have ____ .

6. I have 9. If I blow away 2, I'll have ____ .

7. I have 9. If I blow away 4, I'll have ____ .

8. I have 9. If I blow away 6, I'll have ____ .

9. I have 9. If I blow away 8, I'll have ____ .

Name _____

Our Planting Plan

We want to plant plants.

We know what plants need to grow.

We know that most plants begin as seeds.

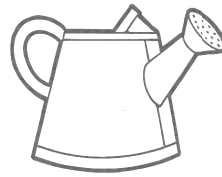
This is what we will do.



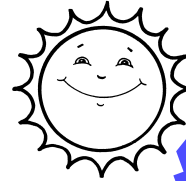
seeds



soil



water



sun



air

Copyrighted material!
Purchase from
EZ2Read.com

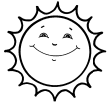
Name _____

Four of the names of things that plants need to grow have grown into word families! If you can read the first word, you can read the whole family. All you have to change is the first sound to match each first letter. Point and read:

● **seed** deed feed need reed weed



soil boil coil foil toil



sun bun fun gun nun run



air fair hair lair pair

Now look at the little story in the box. Circle words from each word family in the colors listed below. Do one family at a time.

seed family words - circle in **red**.

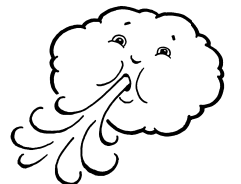
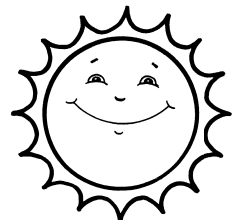
soil family words - circle in **orange**.

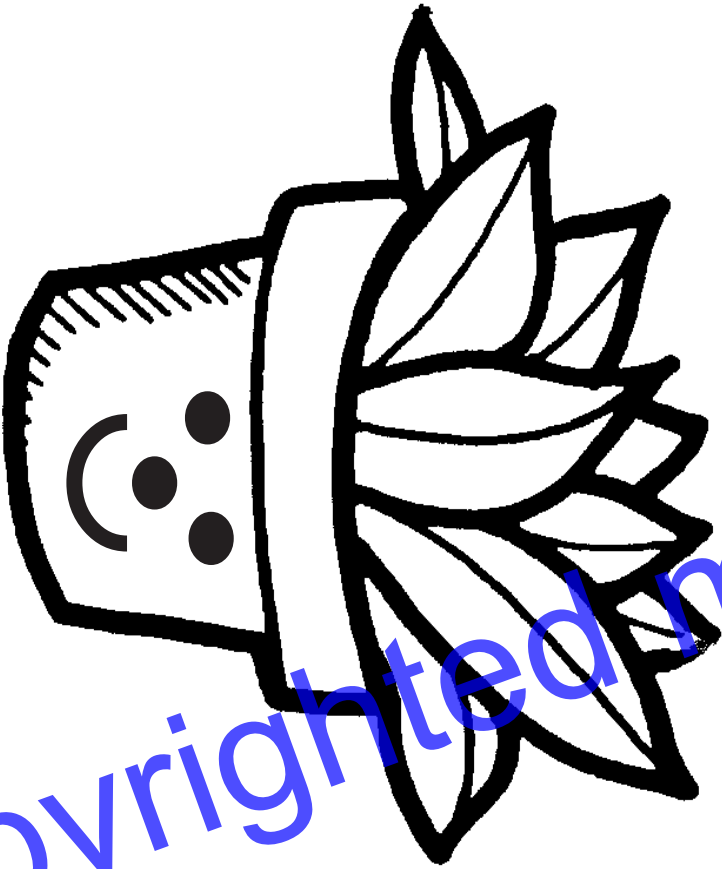
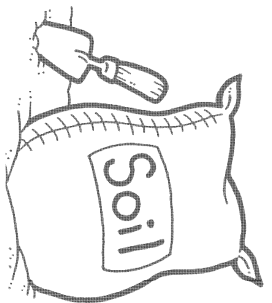
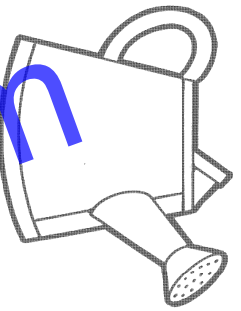
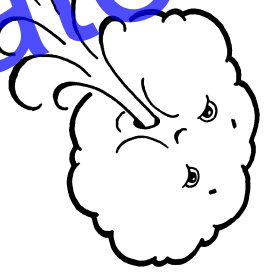
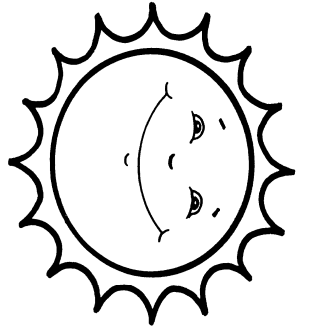
sun family words - circle in **yellow**.

air family words - circle in **green**.

Now you can read the little story!

It is **fun** to **run** in the **sun**,
but the **air** will mess up my **hair**.
I **need** to **coil** my **hair** in a **bun**.
I can not **feed** you this **bun**.
It is not **fair** to **feed** you **hair**!





HOW Plants GROW

© 1999 EZ2 READ Science, Barbara Nicholson 1-888-521-4080
Web site: <http://www.ez2read.com>

Plants need soil to grow. 1



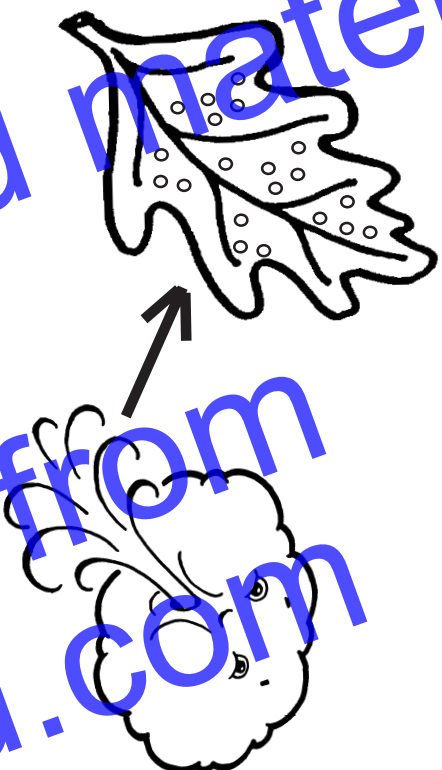
Soil lets the plant

stand up. Soil soaks

up water for the plant.

Copyrighted material!
Purchase from
Ez2Read.com

Plants need air to grow. 2



Air goes under the leaf
and through tiny holes
called stomata. Plants use
 CO_2 and give off oxygen.

Plants need sun to grow. 3



The sun shines on top of
the leaf. The sun lets
the plants make food.

Plants need water to grow. 4



Water goes down into
the soil and up the
roots into the plant.

Water + Sunlight + CO₂ = Food



+



+



The plant makes its own food in its green leaves.

It sends the sugar-water food all over the plant

I make food

in my green leaves.



6

With water, sun, and

CO₂ from the air, I can

make my own food. I will

grow and grow and grow!

Plants need

to grow.

Plants need

to grow.

Plants need

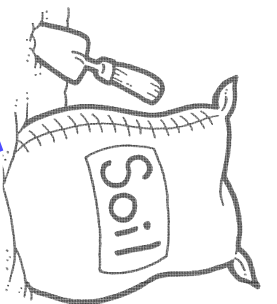
to grow.

Plants need

to grow.



soil



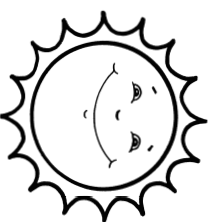
air



water



the sun



CO₂ from the

How Plants Grow