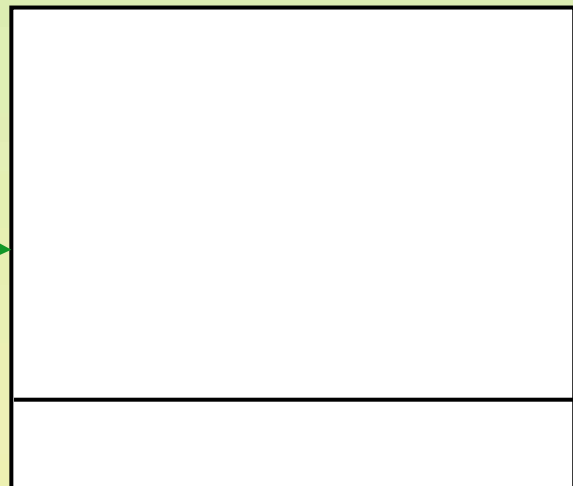
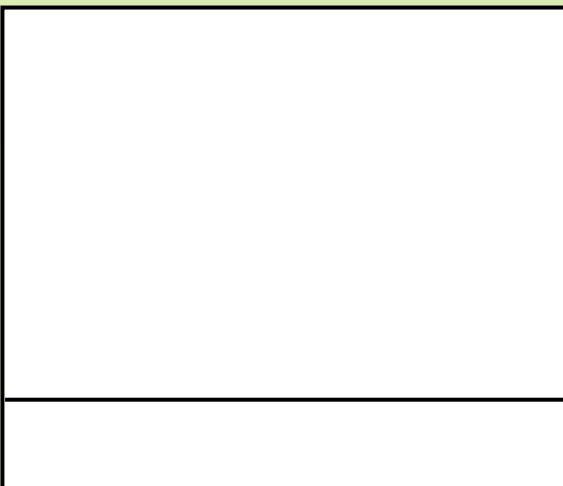
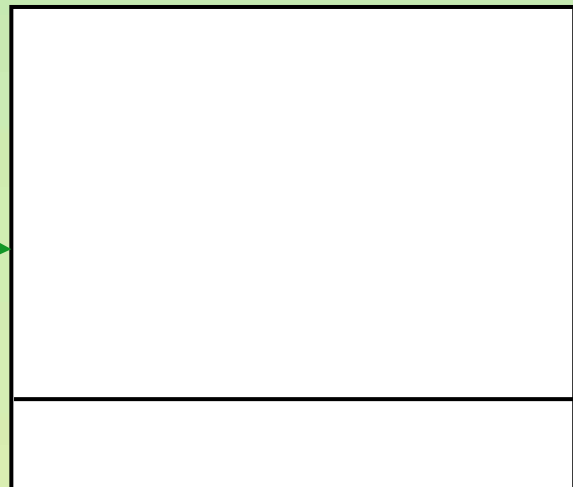
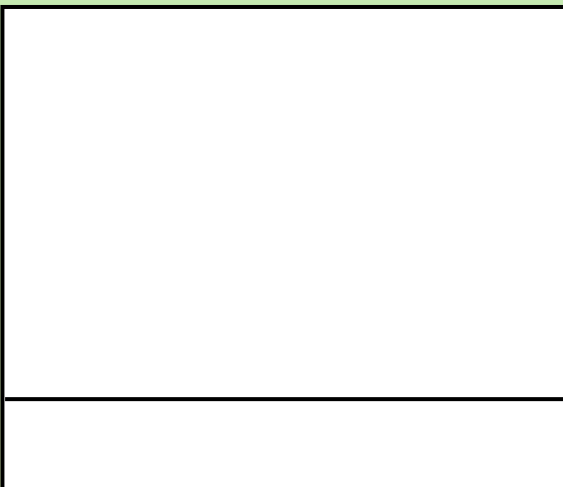
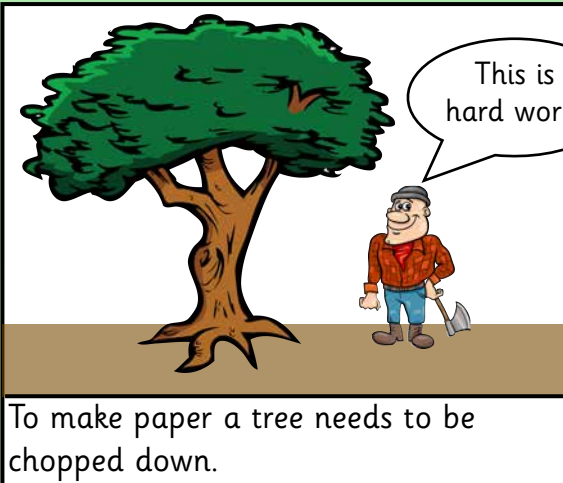


Name: _____ Date: _____



Can you make a comic strip showing how trees become paper? The first bit has been done for you.



Name: _____ Date: _____



Can you answer the questions about how paper is made and why we shouldn't waste it?

What is removed from the wood before it is cut into **planks**?

What comes out of a **woodchipper**?

What happens in the **paper-making machine**?

Why is bleach added to the **pulp**?

Name at least three things that are made from wood.

How many **sheets** of paper do you get from one tree?

How many trees are cut down a **year**?

What is **deforestation**?

What happens to **animals** that lived in forests that were cut down?

What do trees **produce** that humans need?

What have some people suggested we could do to **stop deforestation**?

Name: _____ Date: _____



Your very important task is to create a poster informing people why they shouldn't waste paper!

Paper Problems!

Making Paper.



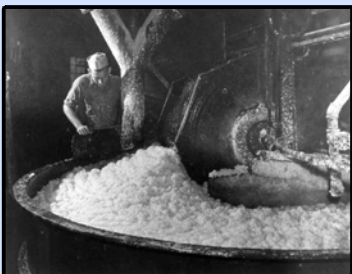
Wood is needed to make paper so a tree needs to be cut down. A bigger tree can make more paper than a smaller tree can. One tree approximately makes 8,000 sheets of paper.



The **bark** is removed and the wood is cut into **planks** so it is easier to store and transport. You have probably spotted tree bark when it has been used around playground equipment.



The planks of wood are put into a machine called a **woodchipper**. The machine cuts the wood into smaller pieces called **woodchip**.



The woodchip is soaked in water and turned into **pulp** in a large machine. Bleach is added to the water to clean the paper and turn it white.



The pulp is then transferred to the **paper-making machine**. In this machine it is pressed, dried and cut. All the paper comes out of the machine the same colour, size and thickness.



You can see lots of different **paper products** all around you. When a customer runs out of paper they buy more. This means the cycle starts again and more trees need to be planted.

What happens when trees are cut down?



People use tree products for lots of things. The chances are your pencil, your table, the classroom door, the classroom cupboards and the shelves are all made from wood. This fact sheet has probably been printed on paper, your exercise book and reading books are also made from paper. **Wood products are everywhere!**

Humans need a lot of trees to keep up with the demand for these products. Around **4 billion** trees are cut down every year, which is about 7,600 trees a minute. When large numbers of trees are cut down in one area it is called deforestation.



When **deforestation** occurs it damages the quality of the land. This means it becomes harder to get things to grow. **Animals** are badly affected by deforestation. When their **habitats** are destroyed they have nowhere to live. This means animals can become **endangered**.

Trees **absorb gases** in the air that are harmful to the environment. They also **produce oxygen**. Almost all living things on earth need oxygen to live.



Some people have suggested that companies should **plant** a new tree every time they cut down a tree. This would stop large areas of the world becoming damaged and provide homes for animals.



Your challenge is...

to make a bridge that will support the weight of a toy car

Your group will have...

Eight sheets of A4 paper

Sticky tape



Your bridge must be **longer than 40cm** and able to support the weight of the car without being held or secured at either end. **This means you cannot tape your bridge to each side of the 40cm gap!**



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Name: _____ Date: _____



Can you answer the questions about how paper is made and why we shouldn't waste it?

What is removed from the wood before it is cut into **planks**?

The bark

What comes out of a **woodchipper**?

Woodchip

What happens in the **paper-making machine**?

The pulp is pressed, dried and cut.

Why is bleach added to the **pulp**?

To clean the paper and make it white.

Name at least three things that are made from wood.

Accept any three appropriate answers.

How many **sheets** of paper do you get from one tree?

About 8000 sheets.

How many trees are cut down a **year**?

About four billion.

What is **deforestation**?

When large numbers of trees are cut down in one area.

What happens to **animals** that lived in forests that were cut down?

They have nowhere to live and become endangered.

What do trees **produce** that humans need?

Oxygen

What have some people suggested we could do to **stop deforestation**?

Planting a tree each time one is cut down.