

LEGEND

- direction
- research topic
- conclusion and discussion
- experiments
- safety
- additional information

Hey, fruit friends!

Have you ever wondered how to pick an apple or a pear high up on a tree?

Did you know that you can build a handy **apple picker** by using the readily available tools and materials at your home?

START

Invent, design and build an **apple picker**!

Product development is a process where a solution to a problem is found, by creating a new product or service

Product development starts with looking for ideas

Ideas and their profitability are evaluated

When an idea seems profitable, a sample product is made and tested

When the solution is successful, it can be put to use, or improved further.

Conditions

- you **must not drop the apple** during the experiment
- you **cannot use any other tools** except for the apple picker and your own height

Figure out how to **make an apple picker** out of newspaper and tape.

You can use:

- old newspapers
- tape
- scissors

1. Draw or write down **all the ideas** on how an apple picker tool might look like. Try to come up with at least **three solutions**.

2. Choose the **three ideas** that seem to work the best and build your pickers.

3. Now it's time to test if your apple pickers work! Try to pick an apple from the tree without dropping it.

A
Our tool **worked**, we got the apple!

B
Our tool **didn't work**, we couldn't pick the apple, or it fell down.

FINISH

How can you make your good solution even better?

The best time for harvesting apples is when you can easily pick them from the branches, without using any force. Fruit should be picked carefully, by hand, without throwing them.

The fruit that has been shaken from the tree or fallen down goes bad much faster. Also, you shouldn't squeeze fruit or move it for no reason.

APPLE PICKER

Have you ever wondered **how to pick an apple or a pear high up on a tree?**
Did you know that you can build a handy **apple picker** by using the readily available tools and materials at your home?

Build a **tool to pick an apple** from the tree.

Conditions

- * you **must not drop the apple** during the experiment
- * you **cannot use any other tools** except for the apple picker – and your own height

You can use: old newspapers, tape, scissors

Draw at least **three schemes** on **how to build an apple picker** from paper

1.

Scheme:

2.

Scheme:

3.

Scheme:

ADDITIONAL INFORMATION:

Which solution was the most effective?

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Why?

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