

COALA GIMNAZIAL LUNCA
Str. Mihai Viteazu, Nr.172, Pascani, Jud. Ia i, România, Cod postal: 705204
pascanisclunca@yahoo.com <http://scoalagimnazialaluncapascani.ro/>
Tel/Fax: 004 0232767002



Little scientists building and design Europe

The research of the tools' use into the house

JANUARY, 2018

ROMANIA

The proposed research by Sweden


22-26 ian. 2018

Tools

Objectives

To help children appreciate the importance of tools in daily life.


To encourage children to become problem solvers and become more resilient.

Task 2	Without Tools	With Tools
<p>Inflate a ball</p> 	<p>What will you do?</p> <ul style="list-style-type: none">- <i>I inflate the ball with my mouth;</i>	<p>What tools could you use?</p> <ul style="list-style-type: none">- <i>Needle and foot pump</i>- <i>Electrical compressor;</i>

What did you learn from your investigation?

After doing this experiment we found out that the ball is inflated more easily using tools.




Task 2	Without Tools	With Tools
<p data-bbox="198 275 574 310">Make a glass of orange juice.</p> 	<p data-bbox="688 275 928 310">What will you do?</p> <ul style="list-style-type: none"> <li data-bbox="613 344 1013 415">- <i>We squeeze the oranges in a glass.</i> 	<p data-bbox="1062 275 1406 310">What tools could you use?</p> <ul style="list-style-type: none"> <li data-bbox="1036 344 1289 380">- <i>We use a juicer</i> <li data-bbox="1036 380 1412 415">- <i>We use an electric juicer</i>

What did you learn from your investigation?

We use a juicer

We use an electric juicer.




Task 3	Without Tools	With Tools
<p data-bbox="186 275 560 348">Insert a screw into a piece of wood.</p> 	<p data-bbox="688 275 932 306">What will you do?</p> <ul data-bbox="613 344 943 417" style="list-style-type: none"> - <i>I screw the screw/the needle with my hand.</i> 	<p data-bbox="1062 275 1403 306">What tools could you use?</p> <ul data-bbox="1036 344 1414 527" style="list-style-type: none"> - <i>We screw the needle/the screw with the screwdriver.</i> - <i>We insert the screw with the electric drill</i>

What did you learn from your investigation?

After doing this experiment we found out that the machine screw is threaded more easily using tools.

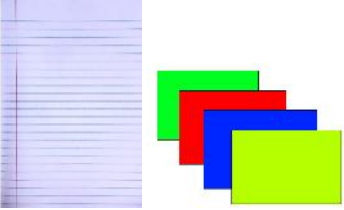


Task 4	Without Tools	With Tools
<p data-bbox="196 333 576 367">To plant seeds in outdoor soil</p> 	<p data-bbox="688 333 930 367">What will you do?</p> <ul data-bbox="613 405 997 583" style="list-style-type: none"> - <i>We sow the seed directly into the ground.</i> - <i>We plant the plant with the hand directly into the ground.</i> 	<p data-bbox="1062 333 1403 367">What tools could you use?</p> <p data-bbox="1036 405 1300 478"><i>Grubbing hoe, rake, cultivator/grower.</i></p>

What did you learn from your investigation?

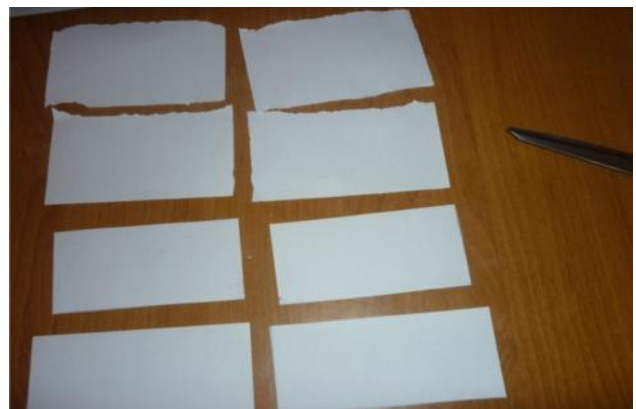
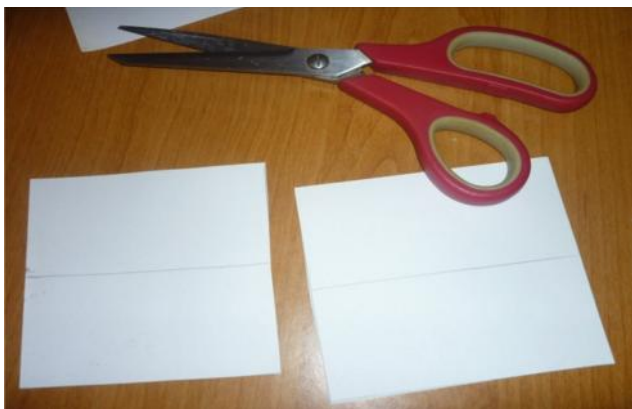
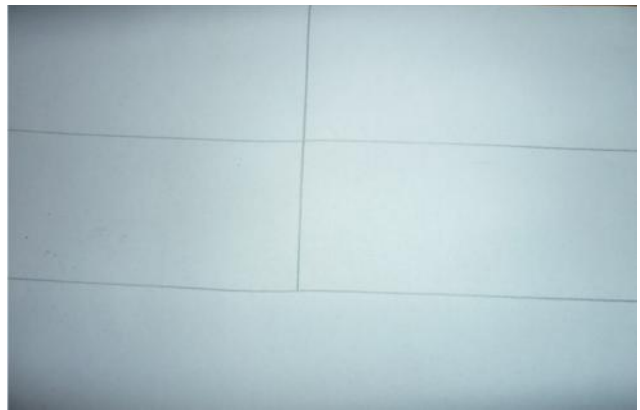
After doing this experiment we found out that we can plant more easily using tools.




Task 5	Without Tools	With Tools
<p>To make 4 rectangles from one piece of paper</p> 	<p>What will you do?</p> <ul style="list-style-type: none"> - <i>I will break the paper rectangles with my hand</i> 	<p>What tools could you use?</p> <ul style="list-style-type: none"> - <i>Scissors</i> - <i>Ruler</i>

What did you learn from your investigation?

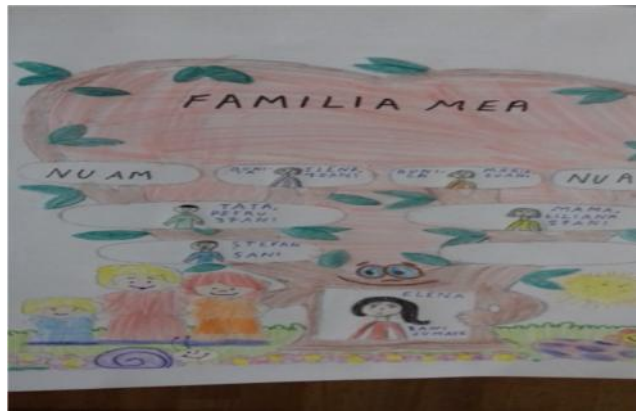
After doing this experiment we found out that the rectangles are easily cut off using tools.




Task 6	Without Tools	With Tools
<p>Create an exact copy/portrait of member of your group</p> 	<p>What will you do?</p> <ul style="list-style-type: none"> - <i>We make a picture/portrait using painting or drawing tools.</i> 	<p>What tools could you use?</p> <ul style="list-style-type: none"> - <i>We use a camera or phone camera.</i>

What did you learn from your investigation?

After doing this experiment we found out that the picture/portrait is closer to reality using tools .



Task 7	Without Tools	With Tools
<p data-bbox="188 275 602 348">Pick up all of the biscuit crumbs from the floor</p> 	<p data-bbox="737 275 971 306">What will you do?</p> <ul data-bbox="667 344 1024 411" style="list-style-type: none"> - <i>We clean the dust using our hand.</i> 	<p data-bbox="1089 275 1425 306">What tools could you use?</p> <ul data-bbox="1073 344 1430 411" style="list-style-type: none"> - <i>We clean the dust using a cloth or a brush.</i>

What did you learn from your investigation?

After doing this experiment, we found out that the biscuits were removed more easily using the tools.





"This materials reflects the views only of the authors, and the ANPCDEFP from Romania and the European Commission cannot be held responsible for any use which may be made of the information contained therein."