

The observation of almond tree

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Overall aims:

- To improve the knowledge and respect about the natural world
- To know more about almond trees (colors, shape...)
- To experience the feeling of success
- To express their emotions through painting
- To improve body and hand control (fine motor skills)

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Vocabulary - keywords

Mediterranean trees, almonds, seeds, plant growth, weather, heat, sun, eating local food, resource, atmospheric gasses, plastic expression, creativity, warm and cold colors water

3

Sustainable abilities developed

- Systemic thinking competency (to recognize and understand relationships between attributes)
- Anticipatory competency (to understand and make predictions or hypothesis)
- Collaboration competency (to learn from others and to respect)
- Self awareness competency (express the emotions and improve one's actions)

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Pillars of sustainability included

- Economic (consume local products)
- Ecologic (respect for nature, importance of almonds)
- Social (native plants- relationship between nature and ways of life)

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STEAM domains

S (Mediterranean trees, almonds, seeds, plant growth, weather, heat, sun), T (fruit picking), A (pictures of nature), M (shapes, colors, texture and sizes of trees and fruits)

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Teaching methodologies/activity outline

STEPS

Beginning

1- Classroom. Observe pictures of almond trees, fruits and information about.

Development (Outdoor in park)



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	<p>2- Go to a park and look for Mediterranean trees: Mediterranean pine, almond-tree; carob tree</p> <p>3- Discuss the parts of the tree and that the trees need water and gasses to grow</p> <p>4- Focus on almond tree</p> <p>5- Reproduce the almond-tree</p> <p>Closing Outdoor and at classroom</p> <p>6- Reflection: Recognize the trees we have seen in the park</p> <p>7- Explain to others and families though pictures and titles</p>
7	<h2>Expected learning outcomes</h2> <p>The child will be able to:</p> <ul style="list-style-type: none"> • To differentiate between warm and cold colors in trees • To identify the parts of a tree • To identify plants that grow in their region • To know what a tree needs to grow • To recognize the importance of water as a resource • To know that plants need oxygen to grow
8	<h2>Assessment</h2> <p>Initial assessment. <i>What does he/she know about almond trees?</i> Asking children about contents to know their background</p> <ul style="list-style-type: none"> • What is an almond? Where can we find in it? • Where do almonds grow? • Do you know some nouns of the Mediterranean trees? <p>Formative assessment (through observation with rubric based on aims). <i>What is he/she learning?</i> In the process</p> <ul style="list-style-type: none"> • Can he/she differentiate between warm and cold colors? • Can he/she identify parts of trees? • Is he/she able to explore using his/her senses? • Is she/able to recognize how plants grow? • Does she/he enjoy the activity showing curiosity and initiative? • Is she/he able to make questions and hypothesis? • Is she/he able to explain or argue to others? <p>Summative assessment. <i>What has he/she learned?</i> After the process</p> <ul style="list-style-type: none"> • Can he/she differentiate between warm and cold colors? • Can he/she identify parts of trees? • Is he/she able to explore using his/her senses? • Is she/able to recognize how plants grow? • Does she/he enjoy the activity showing curiosity and initiative?



	<ul style="list-style-type: none"> ● Is she/he able to make questions and hypothesis? ● Is she/he able to explain or argue to others? <p>evaluate the whole procedure/Making an individual exercise showing the parts of a tree</p>
9	<p>Equipment and materials to be used in learning unit (tools, ingredients etc)</p> <ol style="list-style-type: none"> 1- Human resources (teachers, guides) 2- Digital Blackboard 3- Paper, pencil and pencil colors 4- Pictures of trees 5- Almonds 6- Camera 7- Plants/ vegetation
10	<p>Kind of setting - lab, kitchen, outdoor etc.</p> <p>Beginning</p> <ol style="list-style-type: none"> 1- Classroom- Digital Blackboard <p>Development</p> <ol style="list-style-type: none"> 2- Outdoor -Park <p>Closing</p> <ol style="list-style-type: none"> 3- Outdoor- Checking and explain 4- Classroom- Reflection
11	<p>References - source:</p> <p>Almond tree: http://www.xtec.cat/~fturmo/d108/arbres/ametller.htm</p> 

