

Po Kok Primary School



General Studies Science Day

Germination of Mung Bean P.2(A)

Name: Adarica



Germination of mung beans

Aims:

1. Learn about the growth process of a plant.
2. Find out the basic needs of plants.
3. Observe the growth of plants and record the results.
4. Describe the germination process of seeds.
5. Develop a caring attitude towards plants.



Things students known:

1. The main parts of plants.
2. Functions of different parts of plants.

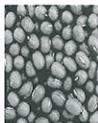


Introduction

Most of the plants have seeds. We can grow plants from seeds.

Method

1. Place some wet cotton or tissue and a mung bean into a glass or a cup.
2. Expose it to the sun.
3. Observe the changes every day.
4. Put some water if the cotton is dry.
5. Measure the size and record the result.
6. Hand in the plant and the report 10 days later.







Reference books

1. Watch it grow for young gardener
2. Growing plant

Growth record of mung beans

Time	Growth	
	Height	Appearance (write or draw)
1. Date: <u>13-11-2014</u> (the <u>1st</u> day)	about <u>0</u> cm	
2. Date: <u>14-11-2014</u> (the <u>2nd</u> day)	about <u>1</u> cm	
3. Date: <u>15-11-2014</u> (the <u>3rd</u> day)	about <u>2</u> cm	
4. Date: <u>16-11-2014</u> (the <u>4th</u> day)	about <u>3</u> cm	

Growth record of mung beans

	Time	Growth	
		Height	Appearance (write or draw)
5	Date: <u>17-11-2019</u> (the <u>5th</u> day)	about <u>4</u> cm	
6	Date: <u>18-11-2019</u> (the <u>6th</u> day)	about <u>5</u> cm	
7	Date: <u>19-11-2019</u> (the <u>7th</u> day)	about <u>6</u> cm	
8	Date: <u>20-11-2019</u> (the <u>8th</u> day)	about <u>16</u> cm	

Result



Can you germinate the mung bean?

Yes

Why? I put water in the

cup.



Conclusion

Try to think: What do seeds need to germinate?

Plants need sunlight, water

and air to germinate and grow.

Try to think: What else do you want to learn about plants?

cost



Further self studies:

<http://www.ehow.com/growing-plants/#>

<http://eslah.k12.ua.us/SOAR/SciProj2002/MichelleC.html>

http://www.alibaba.com/product-gs/251964439/Green_Mung_Bean.html

Critical Thinking Zone

1. If you want the mung beans to grow healthily, what should we do?

Put the mung bean ^{under} the sun

2. Why do we need to measure the size of the mung beans and record it?

To know the growing process of the plant

3. If the mung bean grows slowly, what problems may it have?

Not enough water and sunlight

4. If you have 20 days to grow the mung beans, what will you observe?

I will observe the ^{height} of the plant.

**Parents' Evaluation**

What do you think?	Performance		
	Strongly agree	Agree	Need to work harder
My child has put effort on doing this project.	✓		
He/ She can follow the steps to grow the mung beans.	✓	✓	
He/ She can observe the growth of the mung beans.	✓		
He/ She can record the information correctly.	✓		

Parents' Comment: she is very good

Parents' signature: [Signature]

Peer Evaluation

What do you think?	Performance		
	Strongly agree	Agree	Need to work harder
My classmate has put effort doing this project.	✓		
He/ She can follow the steps to grow the mung beans.	✓		
He/ She can observe the growth of the mung beans.	✓		
He/ She can record the information correctly.	✓		

Classmate's signature: _____

Sunaina

Self Evaluation

Did you do well in the science project? Circle the appropriate options.

1. I _____ about the growth process of a plant.

a. understood b. understood some of c. did not understand

2. I think my performance was _____.

a. good b. average c. poor

3. I _____ this activity.

a. enjoy b. don't enjoy



A. How did you feel after doing this project?

I feel very happy

B. Colour the smiling face to show how you like the activity.



Teacher's Evaluation

Aspects of evaluation	Details	Performance		
		Very good	Quite good	Try harder
Knowledge	Know about the growth process of a plant.	✓		
	Identify the factors affecting the growth process of a plant.	✓		
Mark:		2		
Skills	Use the numeracy skills when measuring the height of plants.	✓		
	Develop self-study skill when surfing other websites.			✓
	Develop the collaboration skills	✓		
	Present one's ideas effectively.	✓		
Mark:		3		
Attitudes	Accept others' opinions and be able to cooperate with others.	✓		
	Solve problems effectively during the process.	✓		
	Record the results truthfully.	✓		
	Develop a caring attitude towards plants.	✓		
Mark:		4		
Total mark:		9 / 10		