

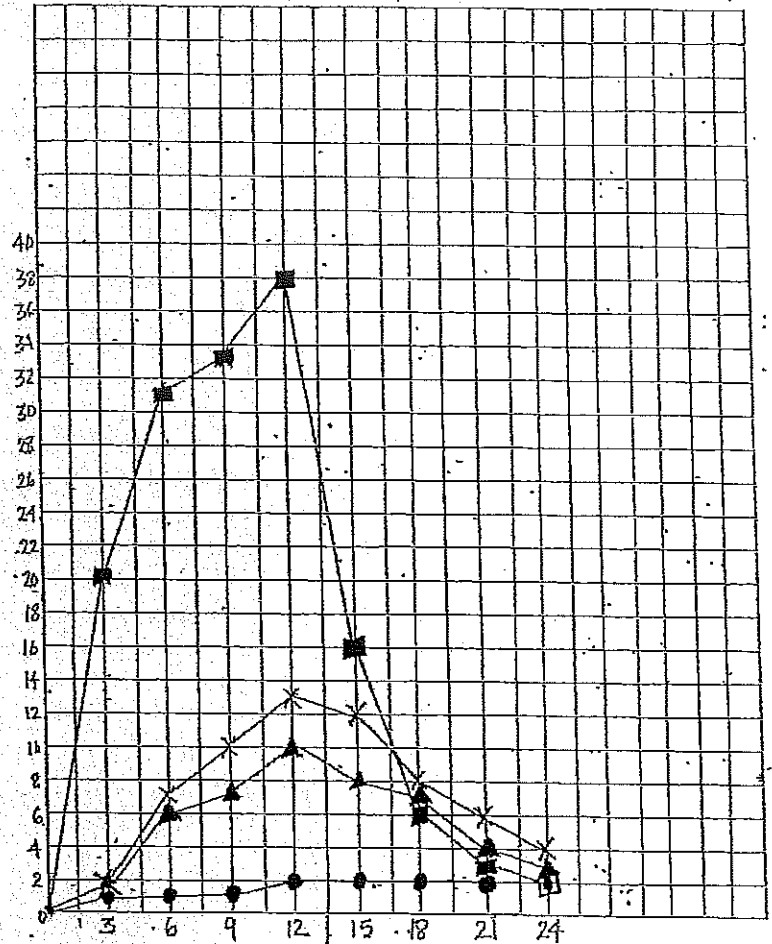
# Earth Materials Lab

Name \_\_\_\_\_ # \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

## The Effect of Time with a Heat Lamp On and then Off to the Rate of Temperature Change

Material	Temp/Time
Sand	▲
Soil	X
Water	●
Air	■

Temperature  
(°C)



Time (minutes)

Lamp On

Lamp off

## The Effect of Time with a Heat Lamp On and then Off to the Rate of Temperature Change

Earth Material	Temp °C 0 minutes	Temp °C 3 minutes	Temp °C 6 minutes	Temp °C 9 minutes	Temp °C 12 minutes	Temp °C 15 minutes	Temp °C 18 minutes	Temp °C 21 minutes	Temp °C 24 minutes
Sand	0	2	6	7	10	8	7	4	3
Soil	0	2	7	10	13	12	8	6	4
Water	0	1	1	1	2	2	2	2	2
Air	0	20	31	33	38	16	6	3	2

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1. Which material heated up the most in 12 minutes? \_\_\_\_\_

2. Which material heated up the least in 12 minutes? \_\_\_\_\_

3. Which material cooled off the fastest? \_\_\_\_\_

4. Which material cooled off the slowest? \_\_\_\_\_

5. Which properties of the materials do you think may have caused the temperature differences?

\_\_\_\_\_  
\_\_\_\_\_

\*\*\*6. Looking at the results from this experiment, do all materials heat up and cool down at the same rate? \_\_\_\_\_ Support your answer with data \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
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