

**Training Header Sheet with Change Log Form****Kentucky Academic Standards**

Science

Operational 2018

SC041619\_06

School Solar Panels

Qualification Sets

Date	Comments	Version
2/2018	Initial Operational Training Set	Set A

14

Part A.

At noon because the Sun will  
be high above.

Part B.

Because at noon the Sun's heat  
gives more heat to the solar  
panels.

6

Part A. The student observations is correct that the solar panel help on the school campus the sunlight help there school campus to also produce more electricity. I found my answer by get detail from the passage to get my answer.

Part B. This location is the best for the solar panel to go because it can capture the sun light to produce electricity to power the school. I found my answer by using detail from the passage.

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Part A.

The light meter would record the highest strength of light on the roof of the building. I think the highest power would be on the roof would be because the roof never has shadows cast upon it and it is the closest place on the school to the sun.

Part B.

I think the roof is the best place for the solar panels is because it wouldn't have any shadows on it so that would mean the rays from the sun would easily go to the solar panel so it could convert it to energy.

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Part A. The place on school that the light meter would get the most light is behind the school at 1:00 p.m. because it gets pretty sunny then.

Part B. Why this location would be the best is because at 1:00 p.m. the sun shines alot and would fill the light meter high. Why the information from the light meter helps you know that is the scale shows you how much light is in the light meter.

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Part A. The best place and time to place the solar panels is in noon on 6 because if there is a shadow in front of the school then that means the light will be facing the back of the school so that is why we south put the solar panels in the south.

Part B. The information from the light meter helps because solar panels need light to work. This location would be best because it has the most sunlight and like I said solar panels need sunlight to work.

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Part A. Based on the students observations, I predict the sun mostly shines on A at noon.

Part B. This location is where the the sun shines the most at. A light meter helps me to measure how much the light there is in that area.

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Part A. At noon because it goes straight down on the roots that would be a good place for them, they will get more light energy for the photosynthesis.

Part B. On the roots because the sun light is going straight down on it, it will get more light energy.



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Part A. At 9:00 am on the east of the school

Part B. I chose that because that's where  
the most sunlight is and there's no  
shadows

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Part A.

The campus that it will be solar panels and the time will be 9:00 am.

Part B.

Solar panels because in the text it said that solar panels so they can capture the most sunlight.

14

Part A. I can predict where on the school campus and at what time the light meter would record the highest strength of sunlight. I think the best place is behind the school and behind all the trees. I also think at noon is when the light meter would record the highest strength of sunlight.

Part B. I can explain why this location would be the best for the solar panels and why the information from the light meters help me know that. This location would be the best because there is a lot of sunlight and no shade. The information from the light meter helps me know that because it shows how much light is there.

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Part A. it would probably be more strong at the very top and at around noon that is probably when it is going to be the strongest.

Part B.

The location is probably good because it is at the top no shadows from anything. The time noon is good because that is when it could get more sunlight.

14

Part A.

You would get the strongest set of sun shine in the south part of the campus.

Because the sun is always in the south part of the school the sun never goes into the north part of the school.

Part B.

I know this because on the map of the school the shade from the sun never goes into the south part of school meaning it would make sense to put it in the south area of the school.

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Part A. In the afternoon because that is when there is the most sun.

Part B. That is where the sun shines a lot.

6

## Part A.

I would put the light meter on the South side of campus. I would place it here because there is never shade. And when the sun moves it puts shade in different places. I would do it at noon because that is when there is the least shade.

## Part B.

Since the sun is facing South, if you put the solar panels there the light meter will record all the sun. If you put it anywhere else there would be too much shade on the meter.

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Part A. The highest stretch of sunlight is at 9:00 am and at noon 11:00 am is the lowest sunshine on the school i know this because it shows at 9:00 am has more sunlight on the school and at 11:00 has the lowest sunlight compared to 9:00 am.

Part B. This location would be best for the solar panels. The sun will be closer to the earth that means it gets brighter when it's dark the sun moves away from the earth that means it's darker.



14

Part A.

9:00 AM  $\subseteq$  part of campus

Part B.

it has the most sunlight + shining on it

14

Part A. Based on the students' observation behind the campus at noon the light meter would record the highest strength of sunlight.

Part B. This location would be best for the solar panels because at noon the sun shines bright on the campus and in that place they will get the most light. The information from the light meters help me know that because it shines on it for the rest of the day so there will be a increase of numbers than in any other place.

14

Part A.

At 9:am because That's when they get the most sun.

Part B.

on top of the roof because they get a lot of sun. There is no shade on the school roof.

14

Part A. Based on the students observations I think they should put it on the roof because nothing is tall enough to shade it and I would receive the most sun at noon because it would be straight over head.

Part B. It is the best area because nothing shades it. The light meter would read how much light energy is present and the more light the more energy.

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**Part A.** I think it would be located at the back of the school, and the time i think 5:00 pm in the after noon and south of the back side of the school.

**Part B.** I thought it should be located at the back of the school because the sun usually comes up behind schools and i know for a fact at 5:00pm south of the school there will be sun on the garden.