

Learning I can make detailed observations of rock samples target: using the word bank.

10/23

#### Powell's Technique:

- A. Diagram the canyon wall where he wanted to collect rocks.
- B. Collect and mark samples of rocks from the area he had sketched.
- C. Record on his sketch where each rock had been collected.

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#2

## **Decriptive word bank**

Color

beige rusty

tan ash gray

red speckled

Black

inky black

brick

graphite

creamy

target:

Texture

nailfile

sleek Gritty

rustic porous

Jagged

wrinkled

rounded

dense

indented streak

grainy

grainy

striped

sandpaper

Craggy mountainous

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Features

flakey

rough

crystals

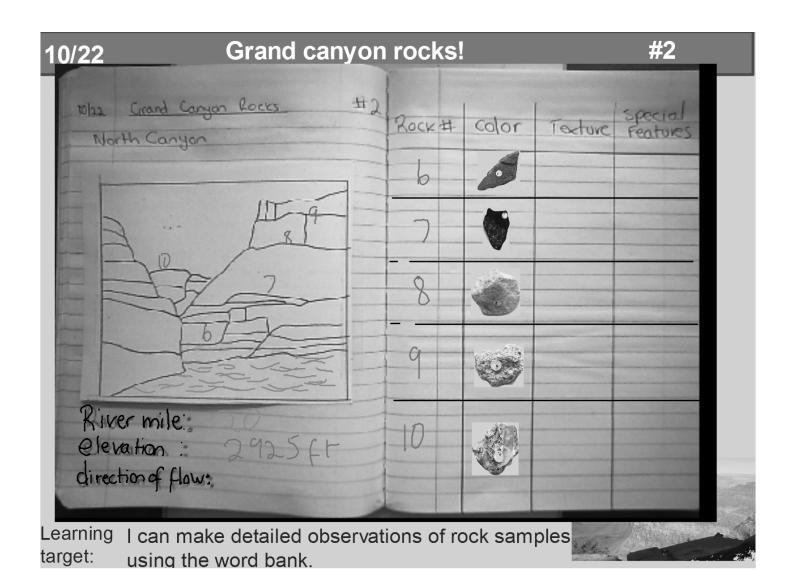
fossils

holes

compacted

sand grains

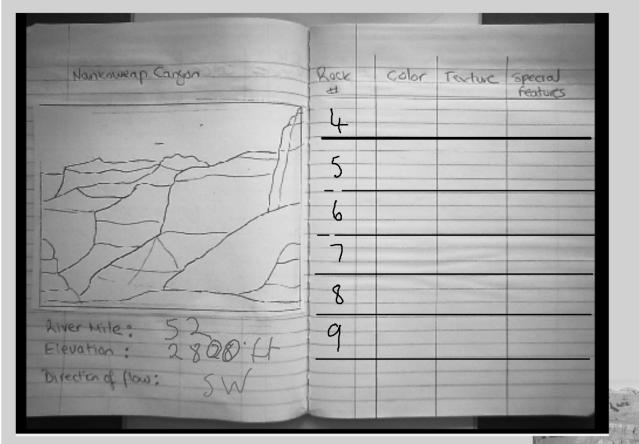
**Veins** 



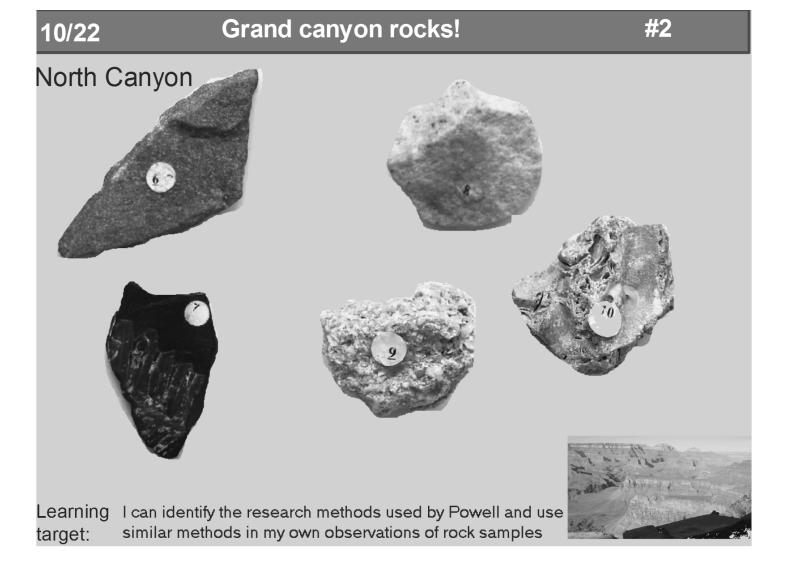
### 10/23

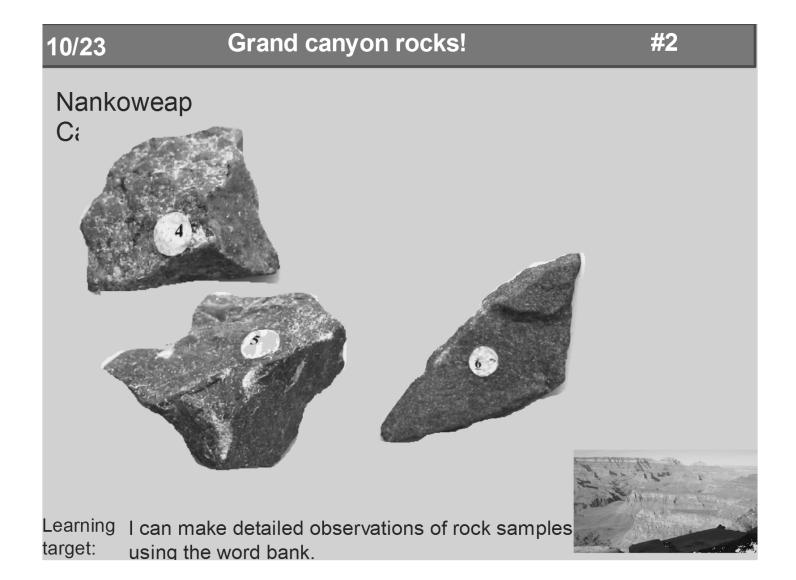
### Grand canyon rocks!

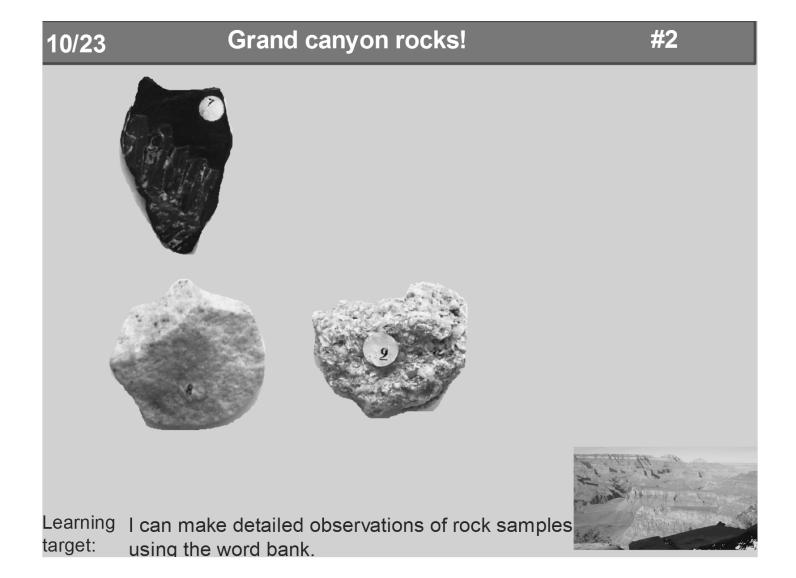
#2



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#2

Make a T chart in your journal: record any similarities and differences between the 2 canyons?

Similarities	Differences

Learning I can use my observations to compare the rock target: samples from the two canyons.



Just as you are now noticing, John Wesley powell noticed that as he rowed down river the rocks were in horizontal bands along the rock wall. The rock he collected at location 7 In the North Canyon was in the the same rock band he collected from the Nankoweap canyon!

Powell organised his rocks into rock columns, one column for each canyon, so he could get a better view of the area he had travelled. He created a conceptual model of the rock wall of the Grand Canyon.

Learning I can use my observations to compare the rock target: samples from the two canvons.



#2

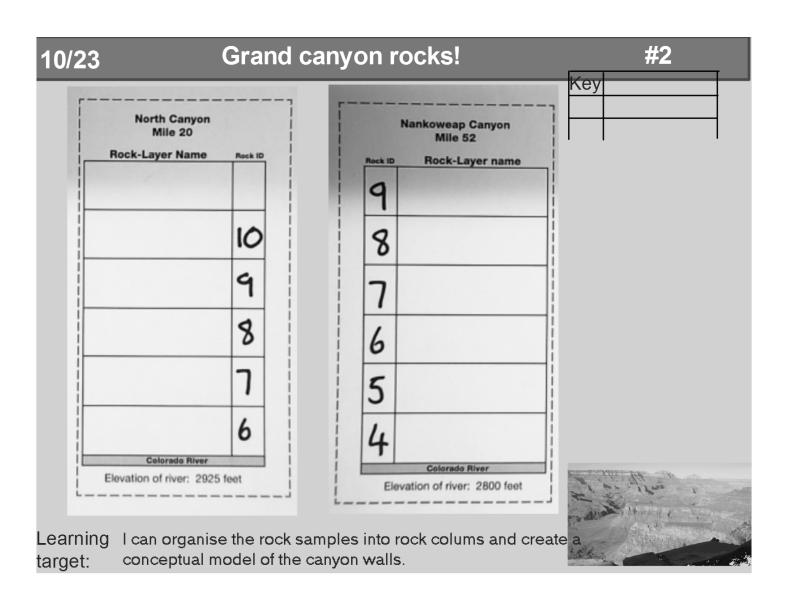
A model is a representation of a system that can not easily be understood.

Making a model of the canyon walls, Powell can see the whole stretch of the Canyon that is actually 30 miles long and about a mile high!

Now your turn!

Learning I can use my observations to compare the rock target: samples from the two canvons.





# Grand canyon rocks! 10/23 #2 Learning I can organise the rock samples into rock colums and create a conceptual model of the canyon walls. target:

# Grand canyon rocks! 10/23 #2 Learning I can organise the rock samples into rock colums and create a conceptual model of the canyon walls. target:

