



# pH of Mars

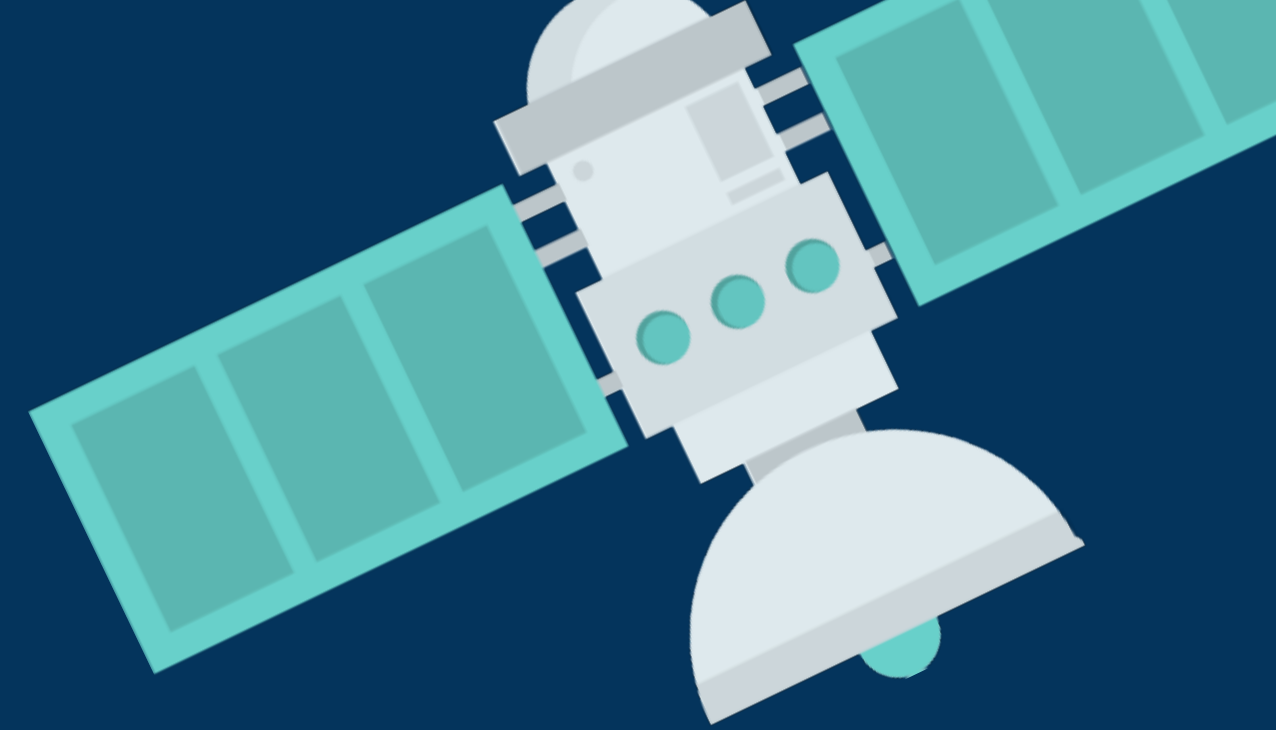
## Acids and Alkalies



# Objectives

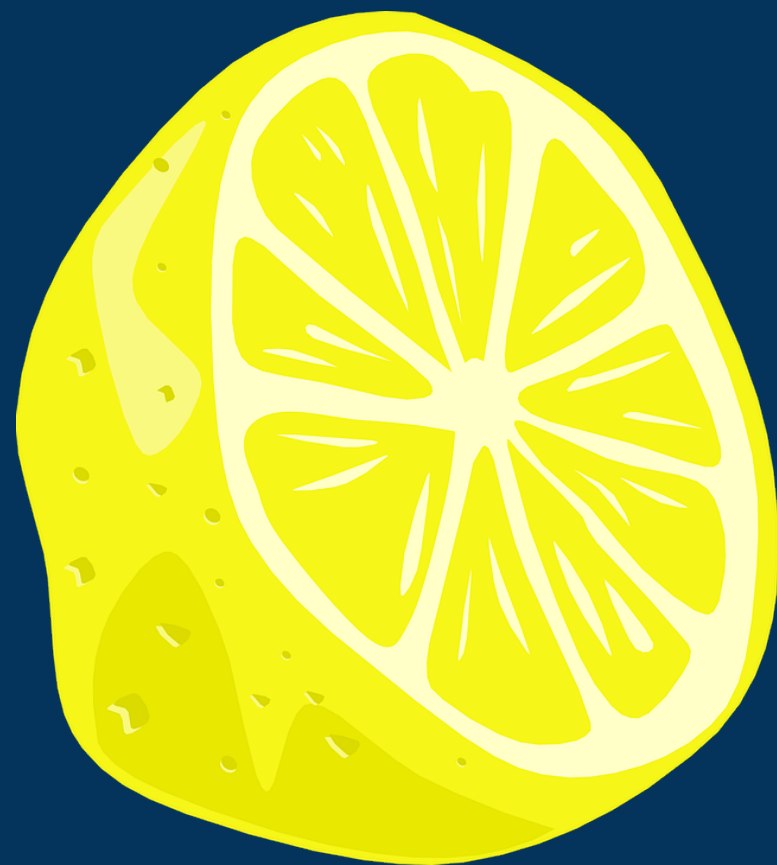
By the end of this lesson you will be able to:

- Understand the pH scale
- Describe how factors on Mars can affect pH
- Discuss how pH affects habitability

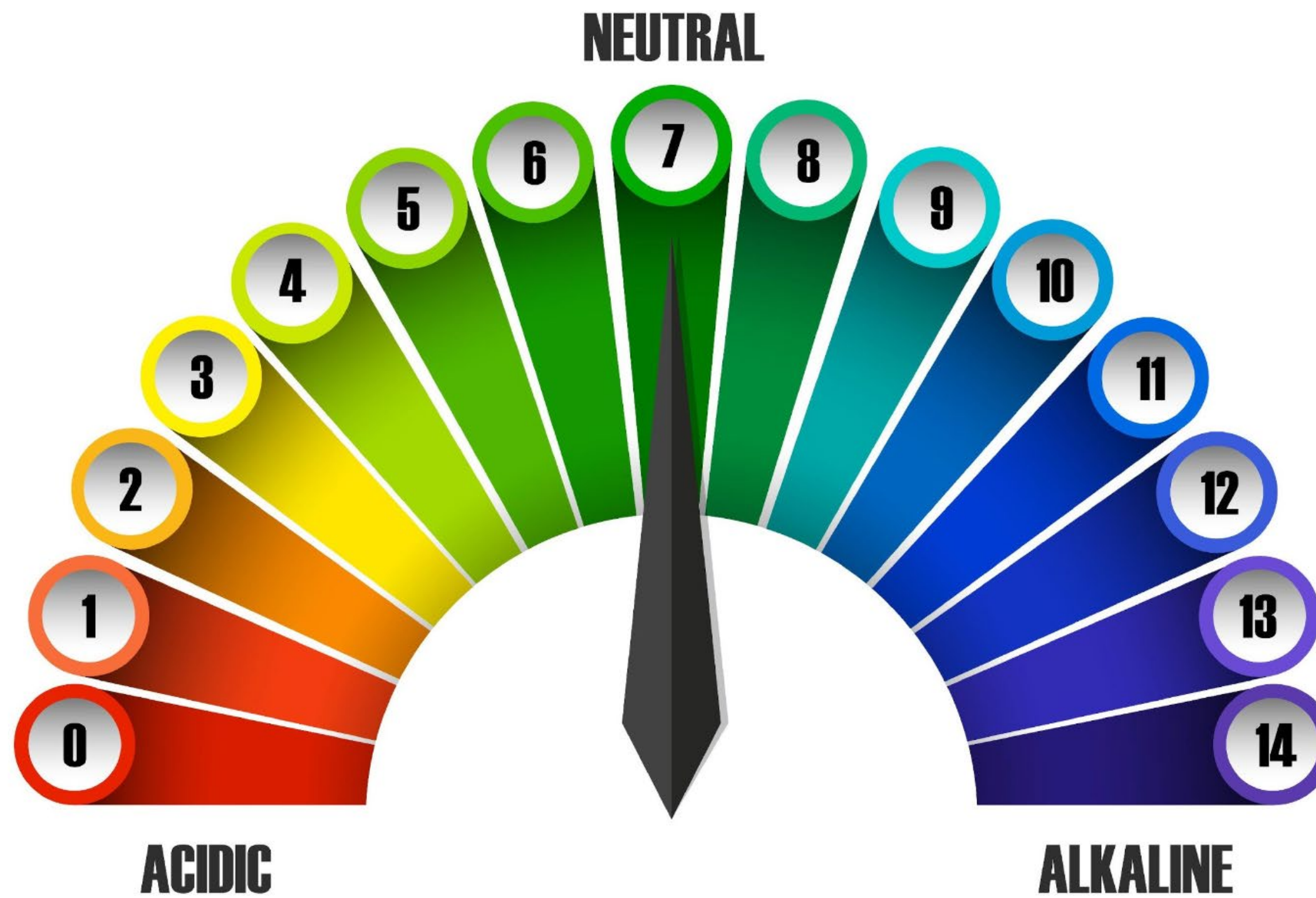





# What is pH?



# pH scale



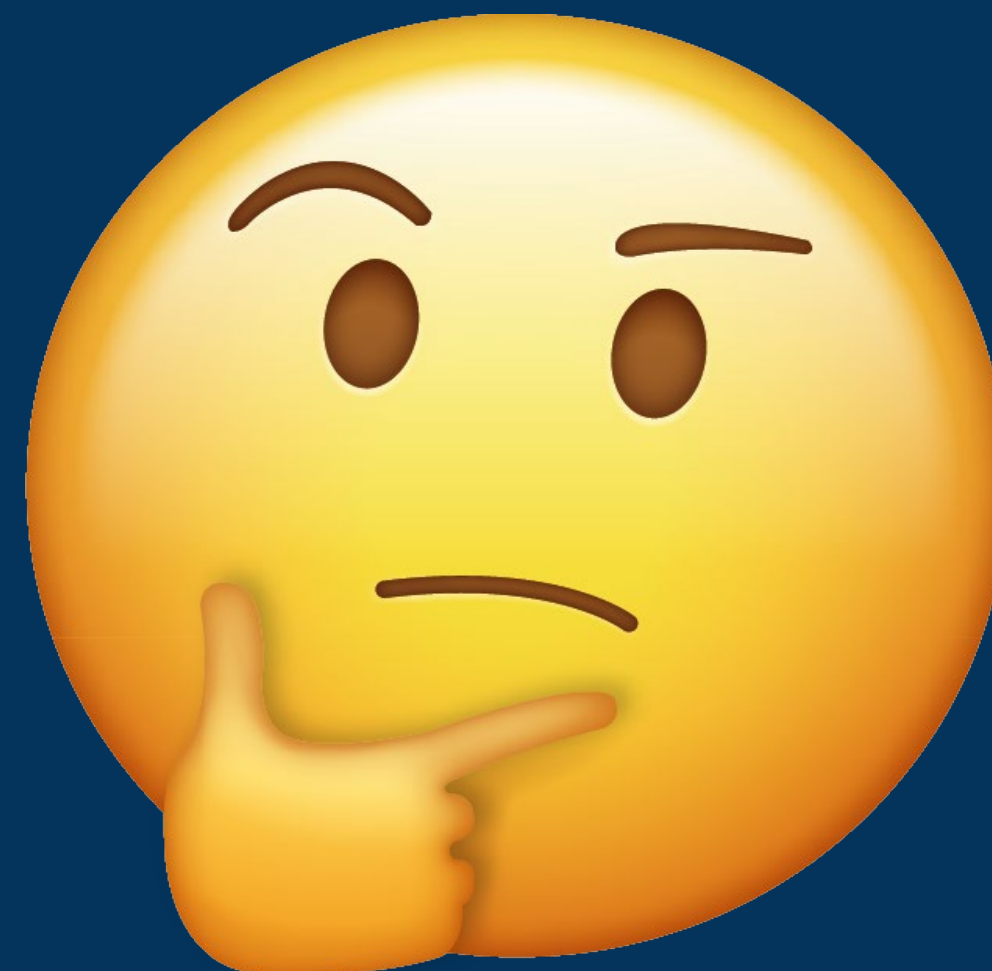


Discuss what you think  
pH might be like on  
Mars?





# How can we detect pH?



# How can we measure pH?

Click button below to link to video:



# What happened? Why?

## Discuss in groups





# Rio Tinto River

## Spain

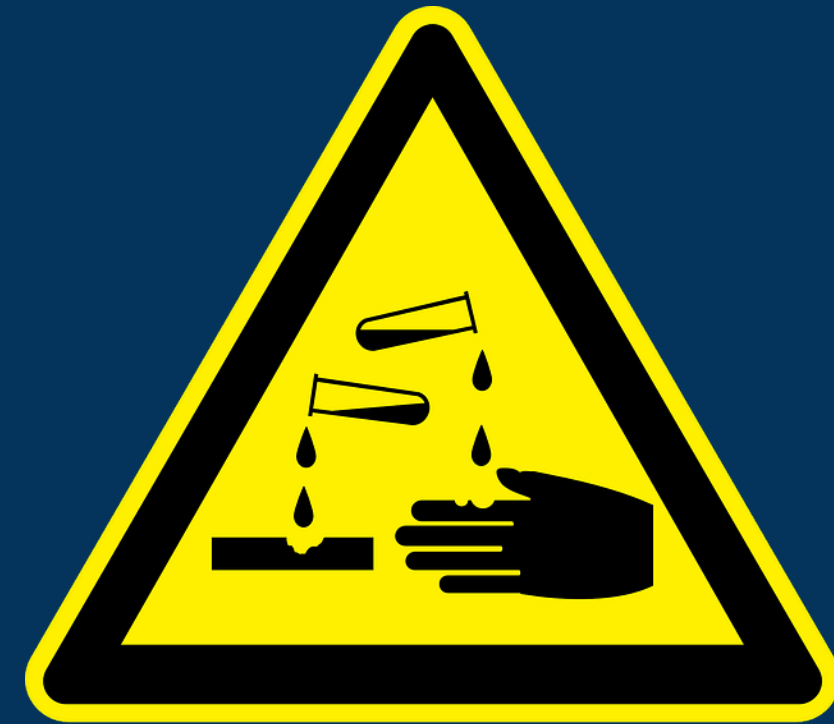
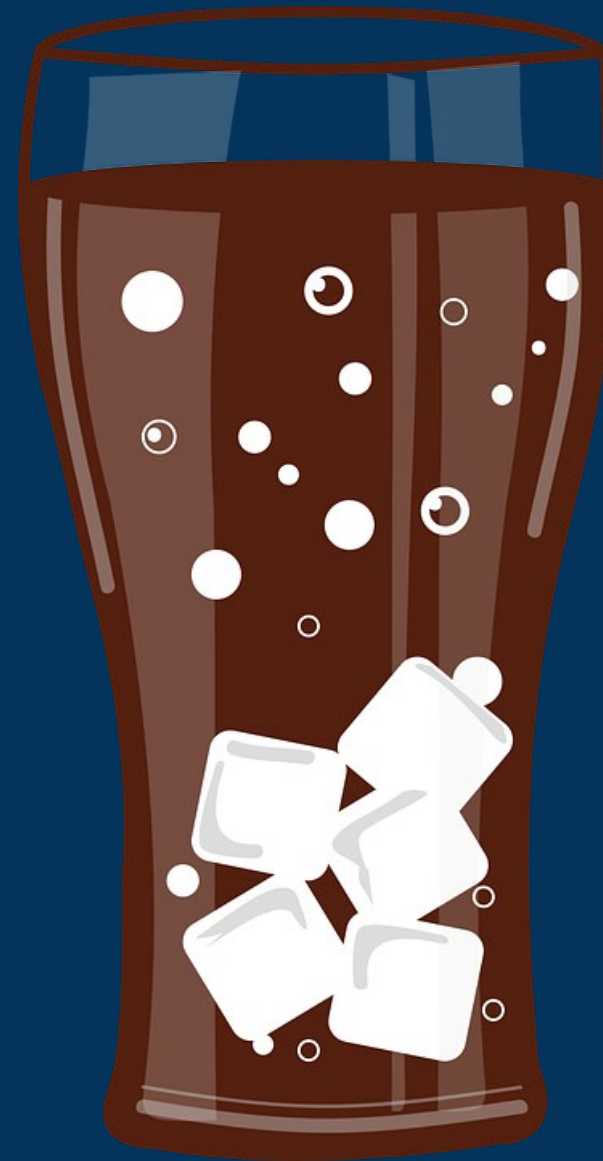
- Acidic environment, which acts as an analogue to Mars' past.



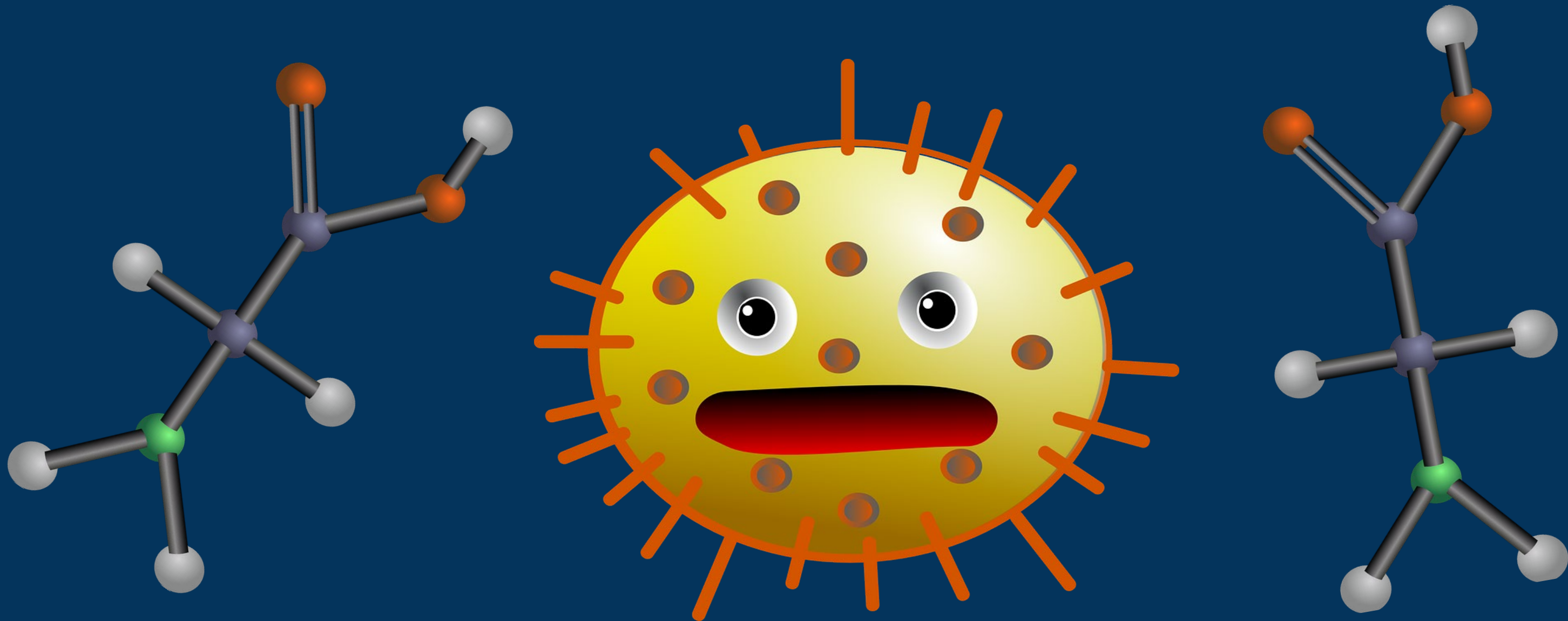




# How does $\text{CO}_2$ affect pH?



# How do you think this might affect habitability?





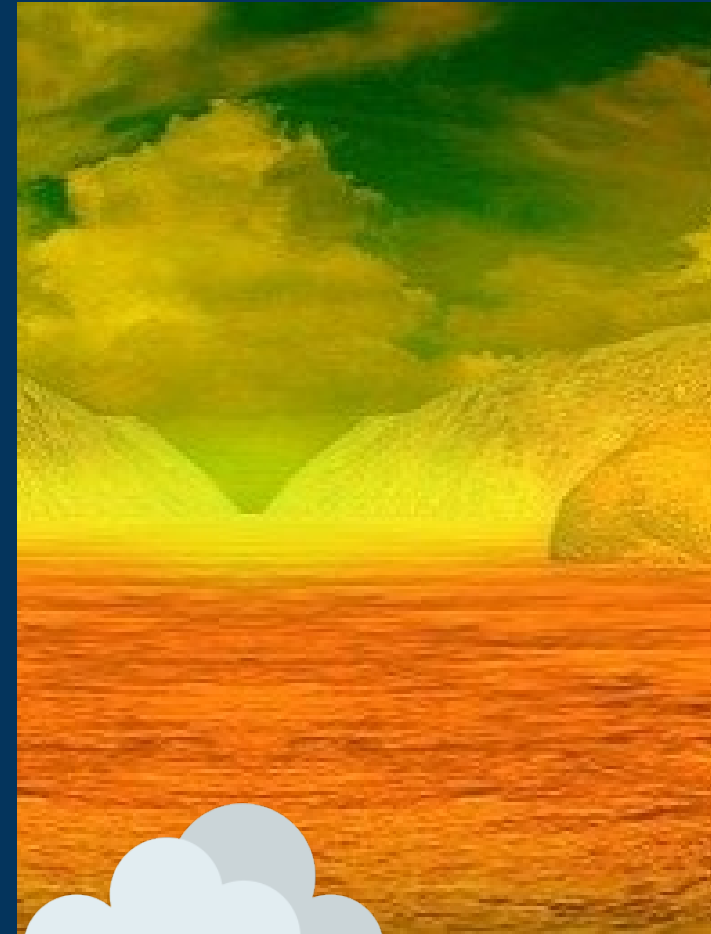
# Recap

Answer these questions  
from what you have  
learned today:



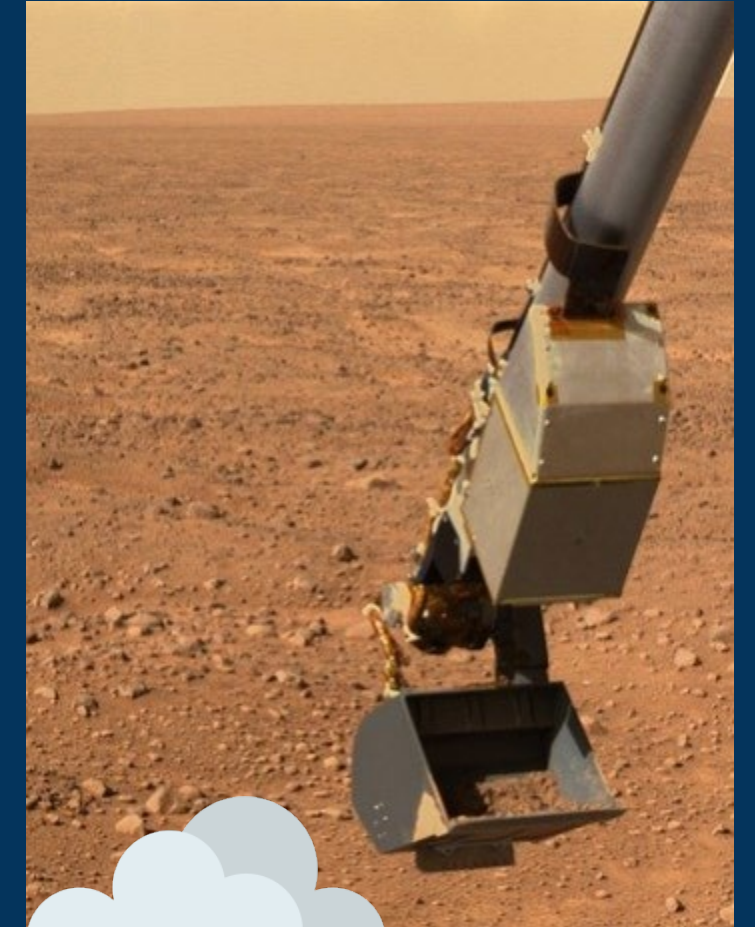
1

What does a pH  
scale show?



2

What factors on  
Mars (past or  
present) could  
affect pH?



3

How could pH  
affect the  
habitability of  
Mars?