





## Starter Activity

1.	Sort th	e liquids	into the	correct	categories:

o Write the liquids under the correct heading.

Acid	Neutral	Base

U	lna	ersi	tano	ding	ςpΗ
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Understanding	gpH
2. What is	s the pH scale?
0	Explain what you have learned about the pH scale.
3. What t	hree categories do we use to classify substances on the pH scale?
0	
0	
0	
Measuring Soi	l pH
4. Are all	soils the same pH? Why or why not?







5. Test the pH of the three soil samples and record your results:

Soil	Sample	pH Reading (Colour)	pH Level (Acidic, Neutral, Basic)	_
Soil Sa	mple 1			_
Soil Sa	mple 2			_
Soil Sa	mple 3			_
6.	Why d	o you think pH is important for	plant growth?	
Plantin	g Your I	Bean Seeds		
7.	We wil	follow these steps together:		
	0	Place a damp paper towel ins	ide each jar.	
	0	Put two bean seeds between	the paper towel and the glass.	
	0	Add equal volume of your ass	igned liquid (acidic, neutral, or basic) to	wet the paper towel.
	0	Label each jar correctly.		
8.	Record	the pH of the liquids you used	:	
Jar Lab	el	Measured p	H	
Acidic				
Neutra	al			
Basic				







Reflection			
11. How confident do you feel about to	oday's learning?		
Tick in the boxes below			
Success Criteria	Red (I need more help)	Amber (Getting there)	Green (I understand well)
I can explain the concept of pH			
I can categorise substances as acidic, neutral, or basic			
I can measure soil pH using pH strips			
I can form a hypothesis about how pH affects plant growth			
Extension Activities			
14. Why do you think soil pH is importa	ant for plants?		
15. What can farmers do to change the	e soil pH?		







## Follow-Up Activities

Date	Plant Height (cm)	Observations
nclusion		
16. What did you obs	erve about the growth of the bean seed	ds in different pH levels?







1/. Did the results match your prediction? Why or why not?	