

Capillary Action Quiz PDF

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Which properties of a liquid influence its capillary action? (Select all that apply)
Density
☐ Surface tension
☐ Viscosity
☐ Boiling point
What are the characteristics of liquids that exhibit strong capillary action? (Select all that apply)
High surface tension
Low viscosity
High density
☐ Strong adhesive forces
Which force is primarily responsible for capillary action?
○ Gravitational force
○ Magnetic force
○ Cohesiveness force
○ Nuclear force
Which factors affect the extent of capillary action? (Select all that apply)
☐ Tube diameter
Liquid viscosity
☐ Surface material
☐ Temperature
Which of the following forces are involved in capillary action? (Select all that apply)
Cohesion
Adhesión

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☐ Surface tension ☐ Friction
Which of the following liquids is most likely to exhibit capillary action in a glass tube?
 Mercury Oil Water Alcohol
What happens to the capillary rise when the diameter of the tube decreases?
 It decreases It remains the same It increases It stops completely
What is capillary action?
 The ability of a liquid to flow in narrow spaces without external forces The process of evaporation in plants The movement of solids in liquids The diffusion of gases in the air
Explain how capillary action is essential for the survival of plants.

Describe an experiment you could conduct to demonstrate capillary action using household materials.



					//
How does surface	tension contribute to	capillary action	n? Provide a det	ailed explanation.	
					//
Discuss the role of	f adhesion in capillar	y action and giv	e an example o	f where this can be	e observed.
					//
Why does mercury	y exhibit a downward	meniscus in a q	lass tube, cont	rary to water?	
					//

How can understanding capillary action be beneficial in designing medical devices?



What is the primary application of capillary action in plants?
O Photosynthesis
Nutrient absorption
Water transport from roots to leaves
○ Seed dispersal
Which material is likely to show the least capillary action with water?
○ Glass
○ Plastic
○ Metal
O Paper
In which of the following scenarios is capillary action observed? (Select all that apply)
☐ Water rising in a paper towel
Oil spreading on water
Ink flowing in a pen
☐ Water boiling
Which law describes the height to which a liquid will rise in a capillary tube?
O Boyles's Law
○ Jurin's Law
Newton's Law
○ Archimedes' Principle
What is the contact angle in the context of capillary action?
○ The angle between two liquid surfaces
The angle at which a liquid interface meets a solid surface
The angle of refraction in a liquid

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○ The angle of incidence of light on a liquid	
Which of the following are examples of capillary action in daily life? (Select all that apply)	
☐ Blood moving through capillaries	
─ Water climbing up a straw	
☐ Milk curding	
─ Water spreading on a tissue	