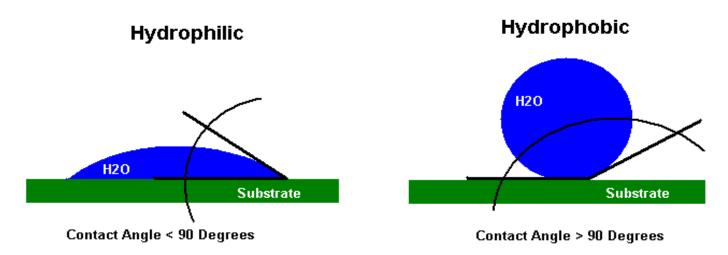
## NNCI—Nanoscale Science and Engineering Exploring Hydrophobic Materials

Hydrophobic and hydrophilic are determined by surface contact geometry or angle as shown below:



Hydrophobicity is used to prevent water from collecting on a surface

 The water is attracted more to itself than the surface because the surface tension force is greater than the gravitational force.

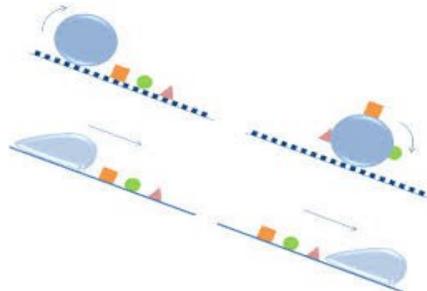


Image at: http://nanoyou.eu/attachments/188\_Module-1-chapter-2-proofread.pdf Creative Commons Attribution ShareAlike 3.0

Superhydrophobic - dirt adheres loosely to surface and is picked up.

Hydrophillic water partly wets the surface and spreads out leaving most dirt on.



