

Nanotechnology

- The idea about nanotechnology can be drawn from geckos.
- They are probably the world's best climbers
- Can hang from a single toe by pure adhesion, not holding anything
- Can suspend 100kg person
- The hooklike claw have nothing to do with hanging
- The amazing structure of the skin of the toe keeps them up

- Seen under the microscope each toe has around two millions tiny hairs on its underside
- they have tinier mono hairs called spatula
- They are able to establish contact with the molecular structure of the surface the gecko is walking on
- The hairs are stuck to the surface by electromagnetic forces called van der waals forces
- The molecules on the feet and on the surface have areas of slight positive or negative charges that attract each other

- Scientists are working in this field and trying to artificially reproduce the same structures of nanohairs . This technology is called nanotechnology
- Interest in this technology was inspired by Richard Feynman in 1960
- The 'nano' catchphrase was coined by dr. Eric Drexler in 1990
- Its application: gloves and boots for rockclimbers, surgery, manufacturing sector