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String Theory

String theory posits that tiny, vibrating strings make up all particles, aiming to unify all fundamental forces in physics.

Long-shore drift

the movement of sand and sediment down the length of a beach. It is caused by the angle of waves crashing onto the shore.

Aerogel

Aerogel is a super-light, highly porous material known for its excellent insulation and extreme lightness.

Wave-particle duality

Wave-particle duality describes how every particle or quantum entity can exhibit both wave-like and particle-like properties.

Volcanoes

Volcanoes form when magma rises through Earth's crust, erupts, and solidifies, often at tectonic plate boundaries or hotspots.

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Aerogel



Aerogel is an ultralight material derived from a gel, where the liquid component is replaced with gas. Known for its extreme low density and thermal insulating properties, it is composed mostly of air, with a porous structure that provides high surface area.

Despite being fragile, ongoing research aims to enhance its mechanical properties for broader uses.

Aerogels are used in applications such as insulation, aerospace, electronics, and environmental cleanup due to their unique combination of light weight, low thermal conductivity, and high strength-to-weight ratio.

Related concepts:

- Cryogel
- Hydrogel
- Superinsulation

Related Article Links:

<http://www.aerogel.org/>

<https://www.aerogel.com/>

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Quantum dots

Quantum dots enhance display brightness and color accuracy in modern TVs and monitors.

Wave-particle duality

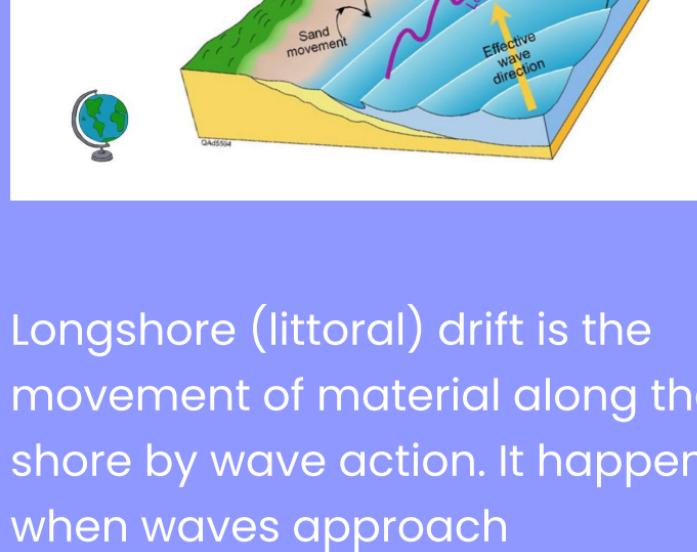
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Long-shore drift

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Longshore (littoral) drift is the

movement of material along the

shore by wave action. It happens

when waves approach

the beach at an angle.

The swash (waves moving up the beach) carries material up and along the beach.

The backwash (waves moving back down the beach) carries material back down the beach at right angles. This is the result of gravity. This process slowly moves material along the beach and provides a link between erosion and deposition.

The material is transported

through suspension, traction,

solution and saltation. Longshore

drift provides a link between

erosion, transportation and

deposition.

Longshore drift contributes

towards the formation of a range

of depositional landforms such as

spits and onshore bars. For

example, spurn Point is a coastal

spit formed by the transportation

of coastal sediment by longshore

drift along the Holderness Coast.

This material is then deposited at

the mouth of the Humber Estuary.

Related concepts:

- Erosion
- Strength of waves
- Wind direction
- Wind speed

Related article links:

<https://www.internetgeography.net/topics/what-is-longshore-drift/>

<https://study.com/learn/lesson/longshore-current-drift.html#:~:text=Longshore%20drift%2C%20also%20known%20as,drift%20of%20the%20longshore%20current.>

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Homeostasis

Homeostasis maintains stable internal conditions in living organisms, regulating temperature, pH, and other vital processes despite external changes.

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