

May the force be with you

What in the world?



At the end of this theme, children should...

- Know how erosion and weathering can change the landscape
 - Know how to identify how coastal features are formed
 - Know how to explain how water and weather can change coastlines over time
 - Know how and why landscapes change over time
 - Know how to predict how factors might change the landscape in the future
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- Know how pneumatic toys work
 - Know how to design a toy that uses a pneumatic system
 - Know how to create a pneumatic system
 - Know how to test and finalise ideas against a design criteria.

enjoy

**Learning Environment
Opportunities**

Immersive Room - watch a time-lapse of coastal erosion



Woodland Workshop - create a model of a beach; add water to show the effect of waves



achieve **Question**

How do water and weather change coastlines? What can be done to protect them?

inspire **Suggestion**

Create a model of a beach in a tray. Add water in jugs, sending the water in waves towards the 'beach' - what happens? Create cliffs out of sand. What effect does the water have?

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EROSION AND WEATHERING

CHANGING COASTLINES

FORMING COASTAL FEATURES

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CHANGING LANDSCAPES

WOODLAND VIEW PRIMARY SCHOOL

PREDICTING CHANGES

OUR LEARNING JOURNEY
History/DT

PNEUMATIC TOYS

CREATE A PNEUMATIC SYSTEM

DESIGN A PNEUMATIC TOY

TEST AND FINALISE IDEAS

Connections

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CONTACT AND NON-CONTACT FORCES

DIFFERENT SURFACES

MAGNETS

PROPERTIES OF MAGNETIC OBJECTS

MAGNETIC FORCES

EVERYDAY USES

SCIENCE LEARNING JOURNEY



Forces and Magnets

THEME VOCABULARY

Geography

weathering
coastal
coastlines
landscapes
weather
precipitation
water
ebb
flow

DT

mechanism
lever
pivot
linkage system
pneumatic system
input
output
component
thumbnail sketch
adapt
properties
reinforce
motion

Science

force
friction
motion
texture
magnet
attract
repel
magnetic field
non-contact force
magnetism
compass
orienteeering

