

Pathfinders - Skip of the Dump

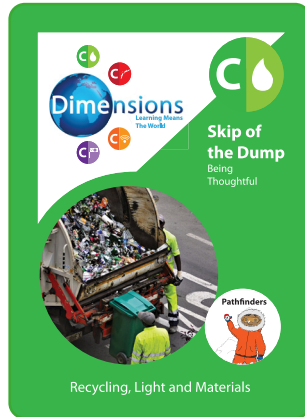
What

I

Should

Know

Dimensions
CURRICULUM



Overview

Skip of the Dump is a thematic unit based on three items found at the dump. Through the found objects and a clear science focus, pupils will find out more about materials, sources of light and the Sun. Shadows and nocturnal animals will also be introduced in this unit. Pupils will also learn about how every item is thrown away or recycled as well as finding out about items from the past.

What?

What is upcycling?

- Upcycling is when we take an item that someone no longer wants or needs and give it a new use or purpose.

What is a light source?

- A light source is something that gives off light. There are natural light sources like the sun and artificial light, like candles.

What materials are best for cups?

- Materials such as porcelain/china or glass are the best for cups because they won't allow water to leak out but are lightweight and easy to pick up.



Reduce, Reuse, Upcycle!

What is a dump?

- A dump or tip is a place where people can take items they no longer want or need. They tend to be places where big items like washing machines, old gardening equipment or large amounts of packaging can be safely disposed of.

Why is reusing and upcycling important?

- Reusing and upcycling items from home can hugely reduce the amount of things that need to go to the dump. If we can find new ways of using old things or making broken things work again then it reduces the amount of new things everyone needs to buy.

Why?

Why must we never look directly at the sun?

- The sun is so bright that, if you look at it directly, it will damage your eyes. You should always wear a hat or sunglasses on sunny days to protect your eyes.

When?

When do nocturnal animals come out?

- The animals that only come out at night are called nocturnal animals. For example, owls, bats, badgers, and hedgehogs are all nocturnal.

How?

How can we reduce the things we throw away?

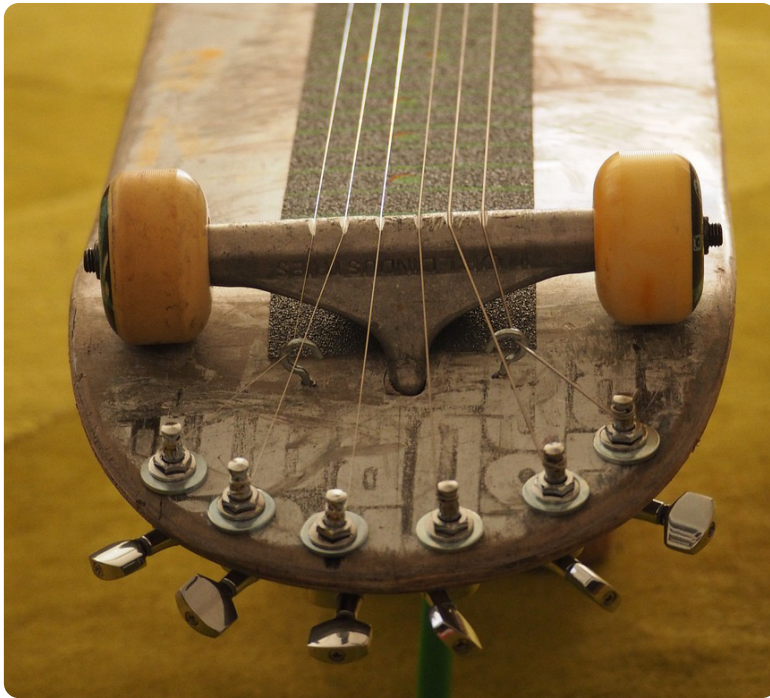
- Making the most of the things we own is important to reducing the amount of things that end up in landfills. We can help by:
- Having our shoes resoled and heeled when they wear down.
- Finding people who can fix electrical items rather than throwing them away.
- Buying good quality clothing that won't wear out quickly.

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How to...

...upcycle at home

- Take a look at some items that might get thrown away at home. Could any of these be upcycled or reused as something else? How about making your musical instrument or making a home for a pet? Plastic bottles can be made into bird feeders.
- <https://www.nhm.ac.uk/discover/how-to-make-a-bird-feeder.html>



Concept Flow

Materials

- To know the difference between an object and the material from which it is made and identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- To know, describe and compare everyday materials on the basis of their simple physical properties

Light and Electricity

- To recognise that we need light in order to see things and that dark is the absence of light
- To know, name and observe a variety of sources of light, including electric lights, flames and the sun
- To recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- To understand that the sun provides energy and that solar power is a sustainable energy source
- To know that shadows are formed when the light from a light source is blocked by a solid object
- To understand the term 'nocturnal' and learn about nocturnal animals

Vocabulary

Appliance: an object you use for a special purpose

Disposable: something that is meant to be thrown out after use

Energy: the power or ability to make something work or be active

Light source: something that gives off light

Nocturnal: awake/ active at night

Porcelain: a hard, white, shiny pottery sometimes known as 'china'

Recycle: putting items through a process that allows them to be reused

Reuse: to use something again

Shadow: a dark image cast on a surface where light is blocked by something solid

Sustainable: to keep (something) going or existing

Upcycle: to reuse an unwanted item and give it a new purpose