

Odd One Out

Bright Ideas Time

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Odd One Out - Biology

Slide	Theme	Ages	Ideas / misconceptions
3	Animals including humans	4-7	Things that are living and things that have never been alive. Young children may think the teddy is alive.
4	Animals including humans	7-11	Children may think that a fire is alive because it seems to exhibit many of characteristics of living things: growth, movement, requires oxygen (respiration) and fuel (nutrients).
5	Animals including humans Plants	4-7	Some children do not think that a plant is living, so this may spark some interesting debate.
6	Animals including humans Living things & their habitats	4-7	Children may consider the characteristics and the behaviour of these animals or their life cycles or habitats.
7	Plants	4-11	Children may consider the external appearance or the functions of these plant parts.

Experience has shown that it is much better whenever possible to show the real things, rather than using pictures.



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Odd One Out - Biology





Odd One Out - Materials

Slide	Theme	Ages	Ideas / misconceptions
9	Properties of everyday materials	4-7	Properties of materials vocabulary including natural or synthetic (not natural). Children may not know that plastics (synthetic) are made from natural products such as oil, natural gas, or coal.
10	Properties of materials	7-11	Electrical conductor or insulator, thermal conductor or insulator, metal or non-metal, strength, shiny.
11	Properties of materials	7-11	Magnetic or non-magnetic materials, metal or non-metal.
12	Changes of materials	7-11	Solids, liquids, changes of state, reversible changes
13	Properties and changes of materials	7-11	Natural or manufactured, irreversible changes: may be burnt or not

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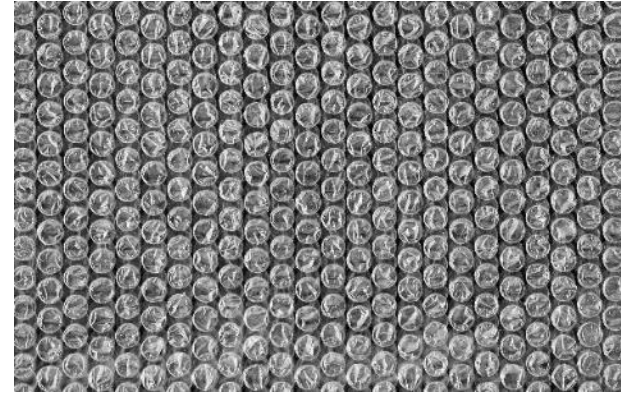


Odd One Out





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bubble wrap



aluminium foil



tissue





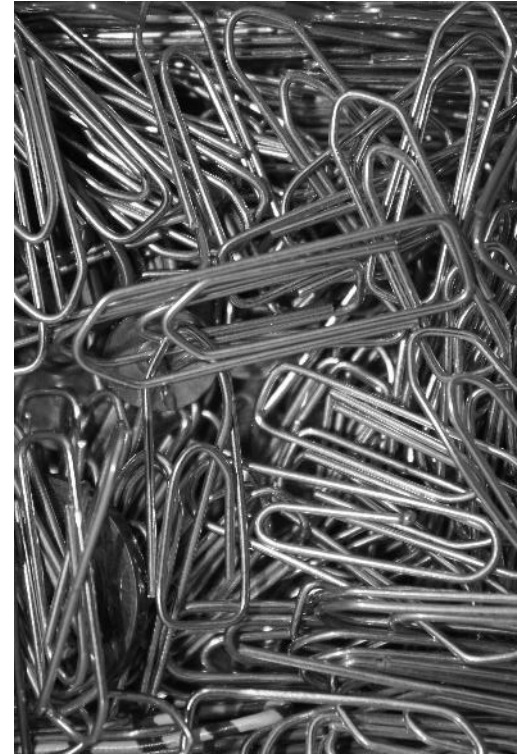
Odd One Out



sand



sawdust

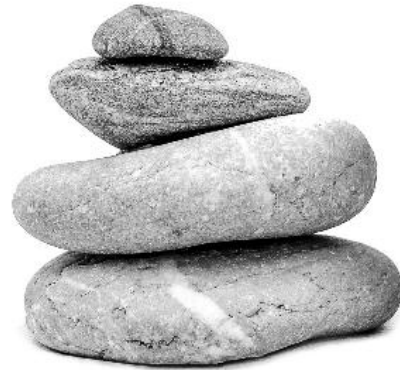


paperclips





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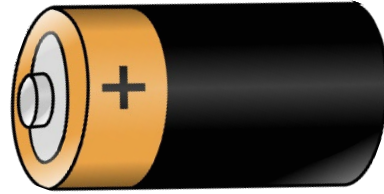
Odd One Out - Physics

Slide	Theme	Ages	Ideas / misconceptions
15	Electricity	7-11	The children may talk about the functions of the components. The battery is the only one necessary to work the other two: the battery stores energy, the light bulb glows, the motor moves.
16	Forces (magnetism) Properties of materials	7-11	Magnetic / non-magnetic materials. Children may think that all metals are magnetic when in fact many are not including aluminium, copper, lead, tin, titanium and zinc, and alloys such as brass and bronze.
17	Sound	7-11	Start a debate about how sound is produced. Children may not be aware that pianos have strings that vibrate when hit by a hammer.
18	Light	7-11	Children may think (incorrectly) that the Moon is a light source. Start a debate about sources of light, reflected light.
19	Earth & Space	7-11	The Sun is the only star. The Earth is the only one which supports life. The Moon orbits the Earth but is not a planet.

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aluminium



copper



gold



iron



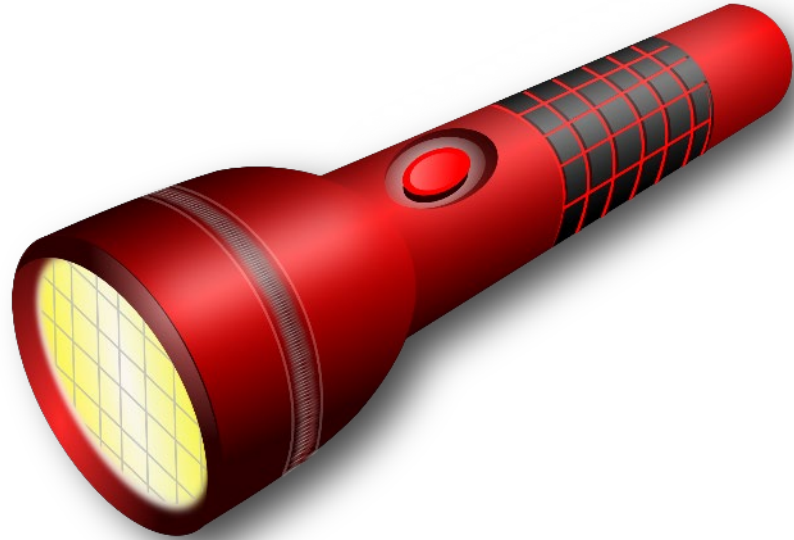


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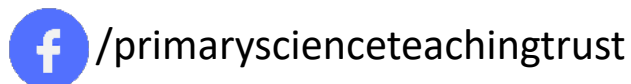
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and we regularly provide further suggestions on how to use these in the classroom through social media platforms:

