

Year 1 - Summer 2 - Comparing Materials - Glass would be a good choice to make a shelter - agree or disagree?

| Key Vocabulary | |
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| <p>Hard</p> <p>Hard</p> | <p>Hard materials are those that cannot be crushed, cut, distorted, or scraped readily.</p> |
| <p>Soft</p> <p>Soft</p> | <p>Soft materials are those that can be crushed, cut, distorted, or scraped readily.</p> |
| <p>Bendy</p> | <p>Something that bends easily into a curved or angled shape.</p> |
| <p>Rigid</p> | <p>Rigid materials cannot be folded and can support their own weight.</p> |
| <p>Waterproof</p> | <p>Something that keeps water out.</p> |
| <p>Flexible</p> <p>Flexible</p> | <p>Flexible materials can bend easily without cracking or breaking.</p> |
| <p>Transparent</p> | <p>Light completely passes through it.</p> |

Prior knowledge

In Year 1 we:

- Identified and classified different materials.
- Identified a variety of everyday materials, including wood, plastic, glass, metal, water, and rock.
- Were able to distinguish between an object and the material from which it was made.

Hard

Soft

Knowledge and Assessment:

- Describe the simple physical properties of a variety of everyday materials.
- Compare and group together a variety of everyday materials on the basis of their simple physical properties.

Sticky Knowledge

- Materials have different properties.
- Materials can be compared or grouped using their properties.

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| <p>hard</p> <p>not easily broken or pierced</p> <p>A hard diamond.</p> | <p>squashy</p> <p>easily crushed or squeezed</p> <p>The play dough is squashy.</p> | <p>smooth</p> <p>an even and regular surface</p> <p>Some smooth pebbles.</p> |
| <p>absorbent</p> <p>able to soak up liquid</p> <p>The sponge is absorbent.</p> | <p>bumpy</p> <p>uneven, raised patches</p> <p>This shell is bumpy.</p> | <p>opaque</p> <p>cannot be seen through</p> <p>She is hidden by the opaque screen.</p> |
| <p>dull</p> <p>lacking shine or brightness</p> <p>The moth's wings are dull.</p> | <p>brittle</p> <p>hard, but may break easily</p> <p>The glass is brittle.</p> | <p>translucent</p> <p>allowing some light to pass through</p> <p>The screen is translucent.</p> |
| <p>rigid</p> <p>unable to be bent or forced out of shape</p> <p>Stone is rigid.</p> | <p>transparent</p> <p>can be seen through</p> <p>This glass is transparent.</p> | <p>soft</p> <p>not firm to the touch</p> <p>The kitten has soft fur.</p> |
| <p>flexible</p> <p>able to bend</p> <p>A flexible spring.</p> | <p>rough</p> <p>uneven, irregular surface</p> <p>The log has rough bark.</p> | <p>waterproof</p> <p>repels water and liquids</p> <p>A waterproof coat.</p> |
| <p>elastic</p> <p>springs back once stretched</p> <p>An elastic band.</p> | <p>shiny</p> <p>reflects light, smooth surface</p> <p>A shiny silver spoon.</p> | <p>conductor</p> <p>lets heat, electricity or sound to pass through it</p> <p>Some metals are conductors of electricity.</p> |