

Group These Materials!

In this activity the children group the materials on the cards based on their properties.

The cards can be grouped in many ways including:

- Into distinct groups e.g. electrical conductor or electrical insulator
- Into groups using a Venn Diagram e.g. flexible and electrical conductor
- Into a Carroll diagram e.g. electrical conductor/electrical insulator and opaque/not opaque.

The children can decide how to sort the cards, or this can be directed by the teacher.

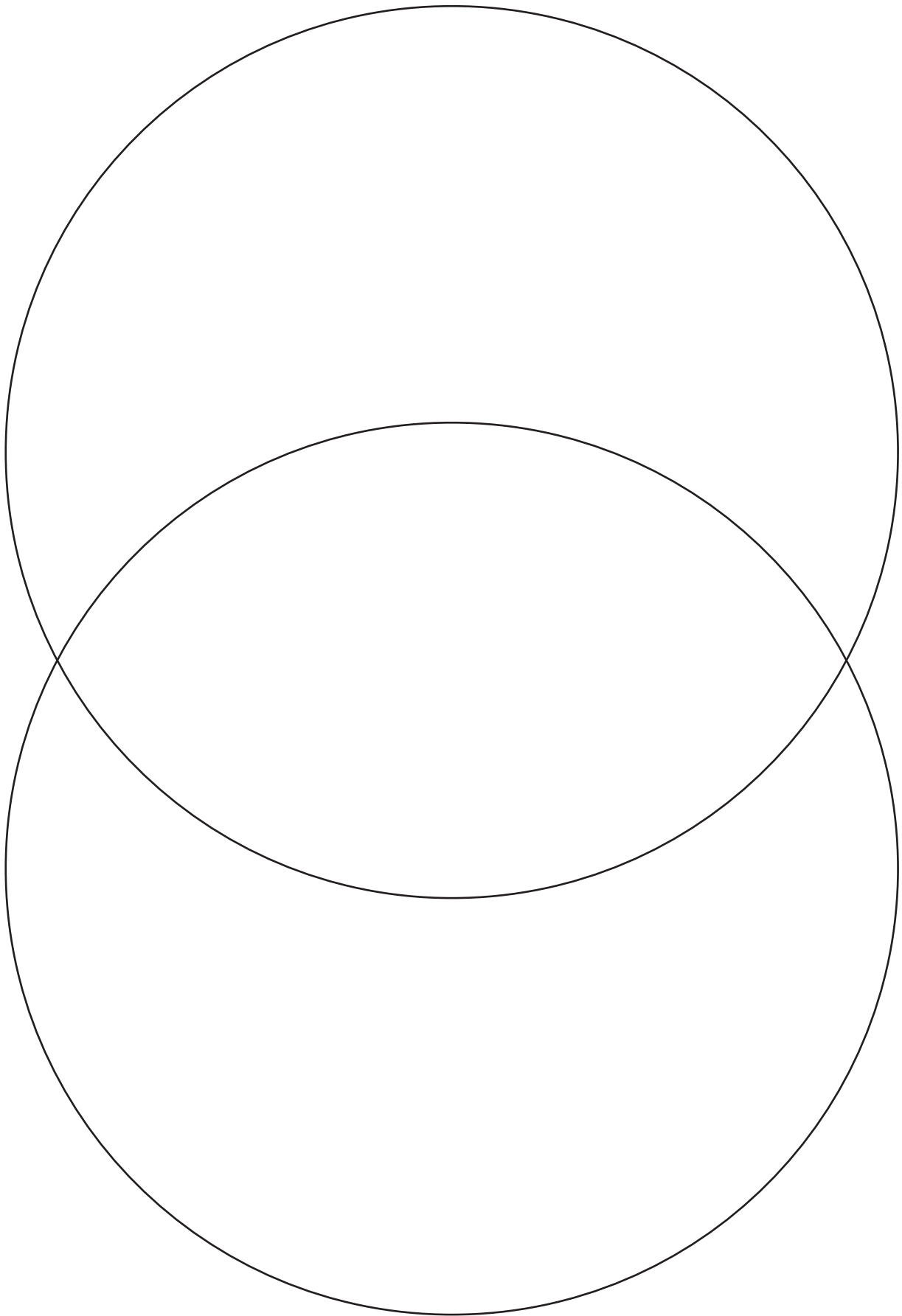
Distinct Groups

Group 1

Group 2

Optional **Group 3**

Venn Diagram



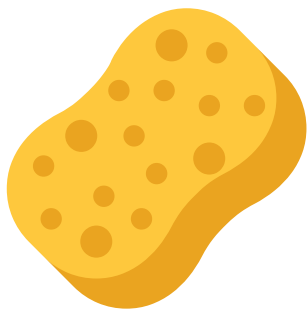
Carroll Diagram



Opaque, electrical and thermal insulator, soft (for rock), rough, rigid, slightly absorbent



Opaque, electrical and thermal insulator, hard, rigid, rough, waterproof



Opaque, electrical and thermal insulator, absorbent, flexible, soft, slightly rough



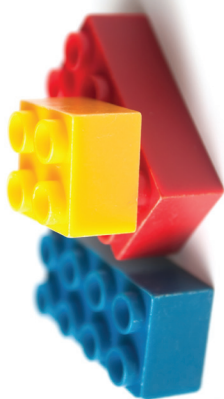
Transparent, flexible, waterproof, electrical and thermal insulator, smooth



Opaque, electrical and thermal conductor, flexible, smooth, waterproof



Opaque, electrical and thermal conductors, strong, rigid, smooth, waterproof



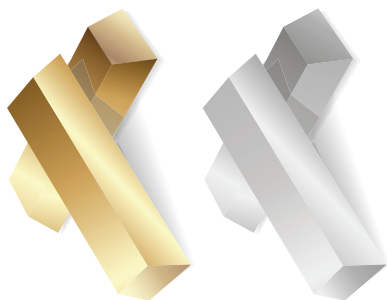
Opaque, electrical and thermal insulator, quite rigid, reasonably strong, hard, waterproof



Opaque, electrical and thermal insulator, slightly flexible, strong, hard, waterproof for a short time – will absorb water if left untreated and in a wet area



Translucent, flexible,
absorbent, electrical and
thermal insulator, soft



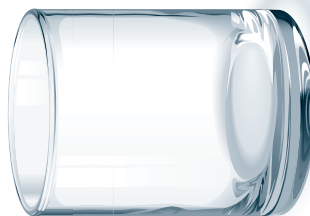
Opaque, electrical and
thermal conductor,
rigid, smooth, shiny,
waterproof



Electrical and thermal
insulator, flexible, soft,
smooth, waterproof



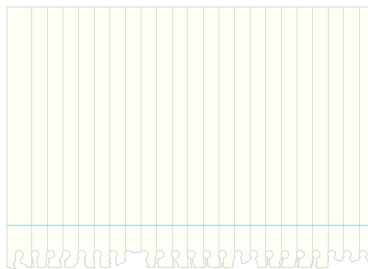
Translucent, electrical
and thermal insulator,
flexible, soft, smooth,
absorbent



Transparent, rigid,
waterproof, electrical
and thermal insulator,
smooth



Transparent, flexible,
waterproof, electrical
and thermal insulator,
smooth



Translucent, flexible,
absorbent, electrical
and thermal insulator,
smooth