

Lightning has amazing powers. One bolts heats the air to 30,000 degrees Celsius. Lightning also has the power to make glass. When a bolt of lightning hits a sandy surface, the electricity can melt the sand. It fuses sand in the soil into tubes of glass called fulgurites.

Fulger is the Latin word for lightning.

## Vocabulary Words

**annealing oven** a special oven that cools the glass piece very slowly.

**furnace** an enclosed structure heated to a very high temperature so that substances put inside, such as glass, will melt or burn.

**frits** or **jimmies** small bits of colored glass.

**gaffer** or **maestro** the leader of a glassblowing team and the person in charge of a glass piece that is being created. The word *maestro* is Italian for “teacher” or “master.”

**gather**, a blob of glass, on the end of the pipe.

**glassblowing** blowing air into a tube to form heated glass into objects.

**hot shop** an artist’s studio or workshop.

**marver** a smooth, flat steel plate on which glass is rolled.

**molten glass** a very thick liquid.

**opaque** preventing rays of light from passing through, and therefore not transparent.

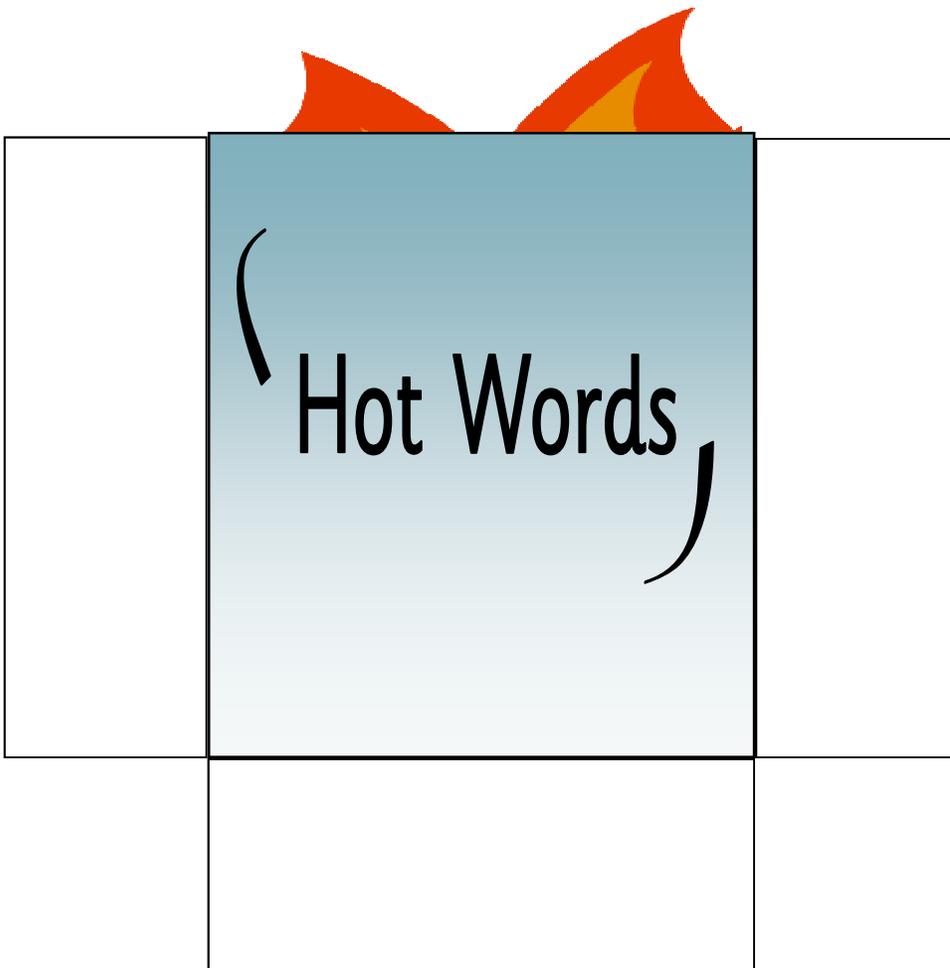
**properties** qualities of a substance or material that can be used in a particular way.

**translucent** allowing some light through.

Write the definition and cut each word to have one card for each vocabulary word

Or

Just leave the two strips and fold accordion style.



glass blowing

annealing oven

furnace

frits or jimmies

gaffer or maestro

gather

hot shop

marver

molten

opaque

properties

translucent



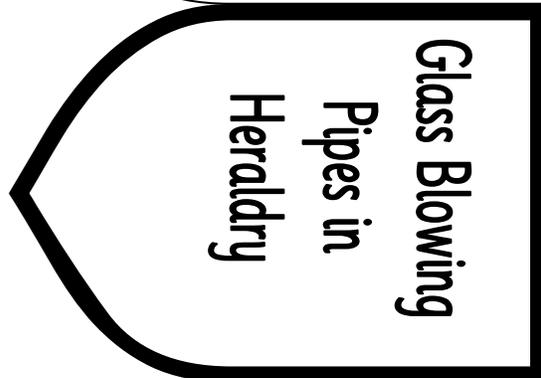
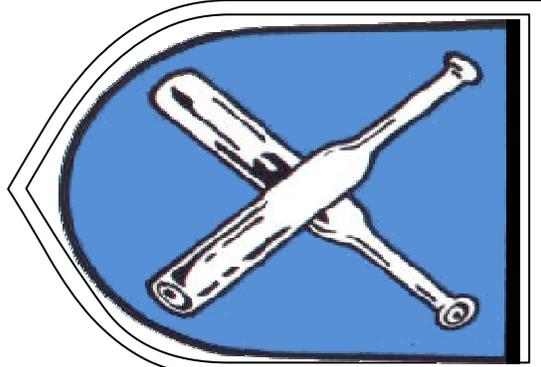
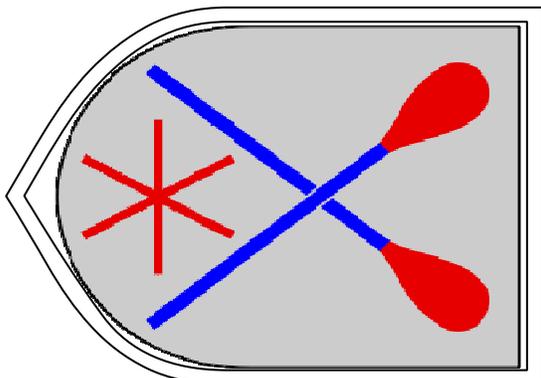
Glass

Use your own information  
or use the information be-  
low.  
Fold in the shutter book -  
and glue this to your page.



Stained

As a material stained glass is glass that has been colored by adding metallic salts during its manufacture. The colored glass is crafted into stained glass windows in which small pieces of glass are arranged to form patterns or pictures, held together (traditionally) by strips of lead and supported by a rigid frame.



Use the book on the left to show how glass blowing played an important part of everyday life. The glass blowing pipes shown on the heraldry is an indication of the area they came from and the industry in that area.

For the book on the right explain the definition of a simile and use it show a simile for glass.

**Simile** : A simile makes a figurative comparison by using *like* or *as*. Not all descriptions are similes; some are simple comparisons between things that actually are alike.

Accordion fold. Fold the title page back and then accordion fold and glue under the last page

Glass is as...

fragile as eggshells.

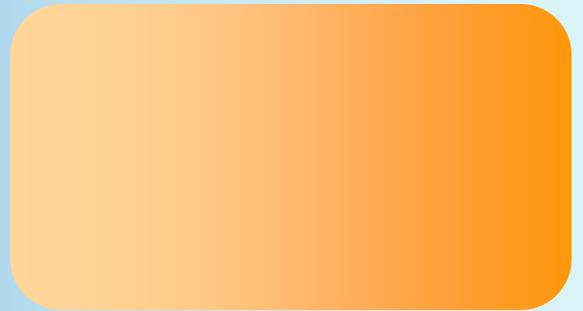
soft as silk.

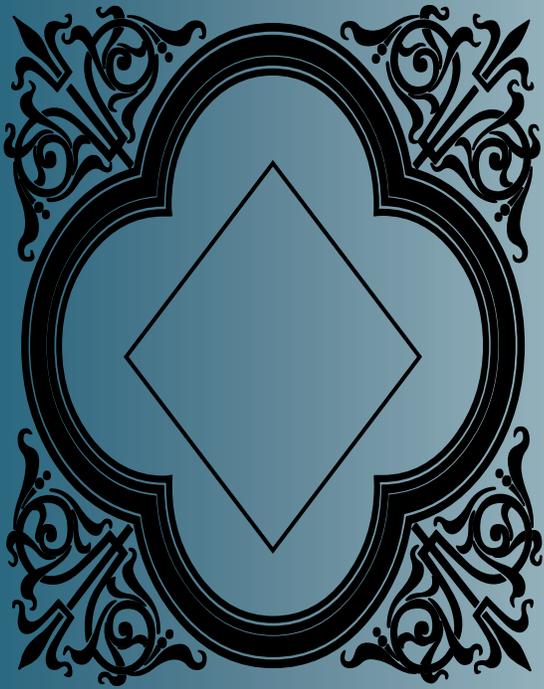
strong as iron.

light as cork.

Glass

Blowing





# Murano Glass

