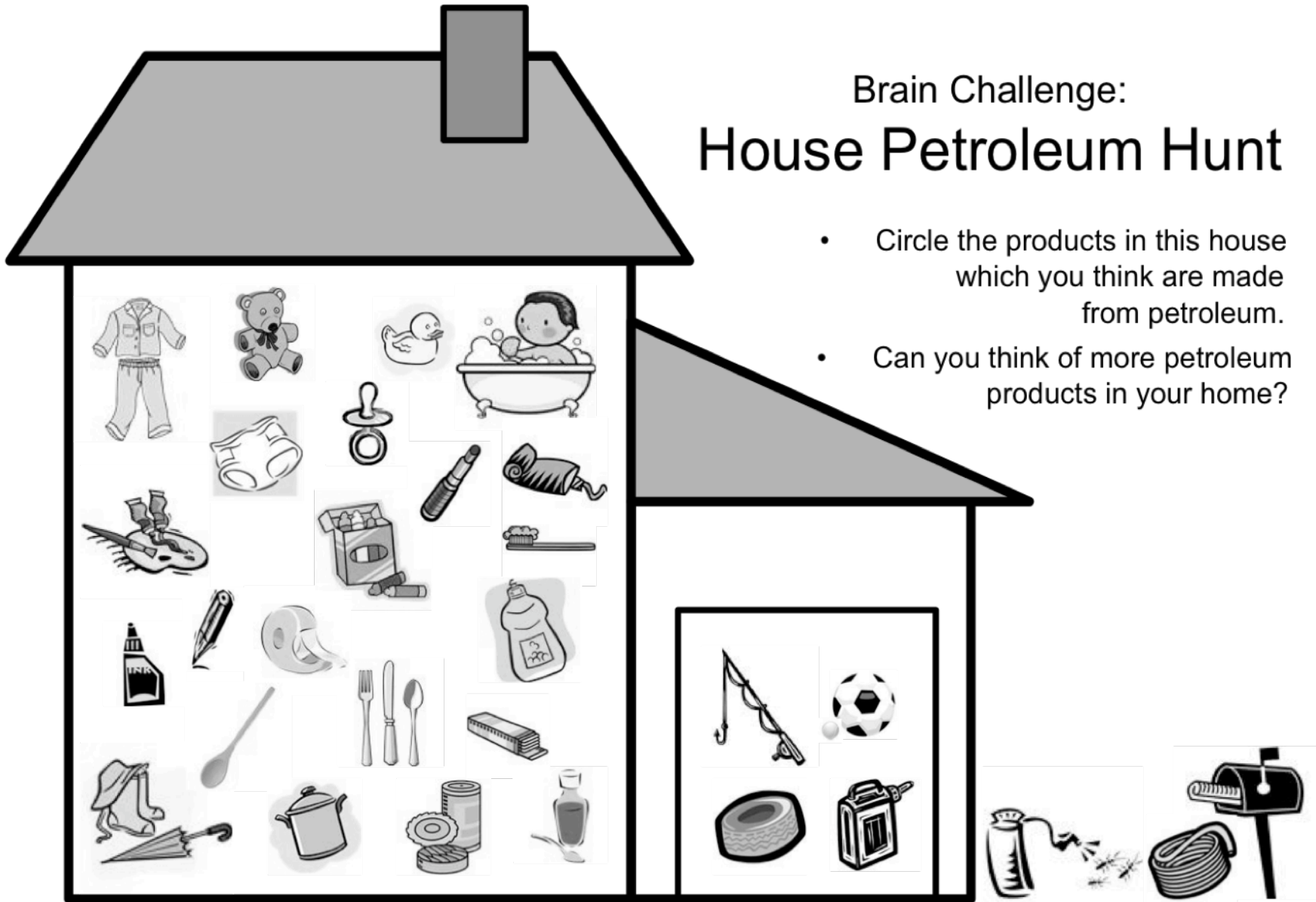


Brain Challenge: House Petroleum Hunt

- Circle the products in this house which you think are made from petroleum.
- Can you think of more petroleum products in your home?



Presenter and Teacher Notes:

Objective: *to help the children be aware of how many products in their homes are made entirely or partly from petroleum.*

- Have the children circle the household items they think are made from petroleum.
- Discuss their choices.
- Explain which products are made from petroleum.
- Have the children think of more petroleum and non-petroleum products in their homes. They may find it difficult to think of several products which are not made from petroleum.

House Petroleum Hunt:

- Products made entirely or partly from petroleum:
 - Pyjamas (polyester)
 - Teddy bear (some made from synthetic fur or “plush” fur)
 - Rubber Duck (made from rubber or rubber-like material such as vinyl-plastic)
 - Bubble Bath (surfactants – play an important role in cleaning, wetting, dispersing, emulsifying, foaming and antifoaming agents)
 - Bath Tub (if made from acrylic or coated with enamel)
 - Diaper/Nappy (polyethelene film, superabsorbent polymers)
 - Pacifier (plastic)
 - Lipstick (contains oils, waxes and emollients)
 - Toothpaste (some contain a surfactant)
 - Toothbrush (nylon)
 - Washing Liquid (surfactants)
 - Acrylic paint (pigment in an acrylic polymer emulsion)
 - Pencils (some have plastic casings)
 - Ink (lubricants and surfactants)

- Transparent tape (the sticky part [adherend] is made from chemically treated petroleum products)
 - Crayons (pigment in paraffin wax)
 - Rubber boots/Wellies (rubber or polyvinyl chloride [PVC])
 - Umbrella (nylon canopy)
 - Bubble Gum (usually made of synthetic rubber known as polyisobutylene and may also contain vinyl acetate, listed as a “gum base” on the packet)
 - Cough Syrup (glycerine may be derived from a petroleum source)
 - Fishing Rod (for ‘graphite’ rods – synthetic resins are added to carbon graphite; nylon fishing line)
 - Soccer ball/tennis ball (Soccer ball – synthetic leather cover, polyester string stitching, polyester lining, latex bladder. Tennis ball – latex rubber and a wool/nylon fabric)
 - Tyre (can be made from synthetic rubber, nylon belt)
 - Gasoline/Petrol
 - Pesticides (the active ingredient is derived from petroleum; kerosene as a carrier, though being replaced by water)
 - Garden Hose (made of synthetic rubber or soft plastic)
 - Mailbox (plastic)
 - Newspaper (Ink)
 - Hat (acrylic)
 - Canned Food (the can itself is made of a tin coated steel or aluminium, however, can be lined inside with a plastic coating. The label can be paper or plastic. Some foods contain synthetic preservatives derived from petroleum)
- Products not derived from petroleum:
 - Wooden spoon
 - Stainless steel pot (without a plastic handle; stainless steel is an alloy of iron, nickel and chromium and may also include titanium, molybdenum, vanadium and copper)
 - Hat (if made entirely of cotton, straw, fur, hide)
 - Cutlery (stainless steel, silver)