

Design and Make Suggestions by Strand Unit

Design and Make Suggestions for Heat	Design and Make Activities for Sound
<ul style="list-style-type: none"> • rice krispie buns • a cold drink • tea cosy • cover for a hot drink to keep it warm • outfit for teddy in the snow or on a sun holiday • hot air balloon • dancing snakes (spirals) • mini greenhouse for growing seeds/plants • a solar panel to heat water on a sunny day • a thermometer • blinds to keep a car cool in hot weather 	<ul style="list-style-type: none"> • loudspeaker- card in cone shape • string telephone • shakers • percussion instruments- shakers, tambourine, xylophone, triangle • earmuffs • rubberband banjo • stethoscope –funnel and plastic tubing • glass bottle xylophone • straw oboe • model of how ear works • sound cannon
Design and Make for Electricity	Design and Make for Magnetism
<ul style="list-style-type: none"> • lighthouse • clown’s head with light up eyes • clown with spinning bowtie • torch-use plastic bottle for body and tin foil as reflector • crane that uses an electromagnet • traffic lights • buzz off game • burglar alarm • quiz board • tilt switch • car with working headlights • spin painter • a fan • a helicopter 	<ul style="list-style-type: none"> • a door catch for a cupboard • a simple crane to lift a toy car • a fishing game • cork/polystyrene boats • racing car game • a magnetic game suitable for infants • a container that will keep all the teacher’s paperclips together • sculptures using magnets • flying paperclip game • magnetic maze • football game • a crane that uses an electromagnet • fridge magnets
Design and make Activities for Forces	Design and Make for Human Life
<ul style="list-style-type: none"> • Land yacht to carry toys for a set distance • plasticine boat • windmill made from card • bridge made from playing cards • bridge made from artstraws • parachute • a safe see-saw • a raft • a mobile hanging decoration • a pick-up truck • a wind-up toy using elastic bands • a wind turbine to spin a coloured disc 	<ul style="list-style-type: none"> • slipper or shoe • a tasty cereal • a measuring chart • model of digestive system using papier mache • model of ribcage • model to show length of intestine 8.5m • sandwich • model of set of teeth • models of skeletons, showing limbs and main joints • a stethoscope • anti-dust mask • lung capacity model

<ul style="list-style-type: none"> • a lifting device with pulleys, levers and gears • a pop-up book/card • a water wheel to turn a gear system 	<ul style="list-style-type: none"> • anti-smoking poster
<p style="text-align: center;">Design and Make for Light</p> <ul style="list-style-type: none"> • a road sign • coat for a traffic warden • plastic bottle glasshouse • a pair of shades • shadow puppets • shadow theatre • poster to advise not to look at sun • a sundial using a shadow stick • motor to spin wheels of colour • lampshade • shadow clock • kaleidoscope • glasshouses with different coloured 'glass' • cover for a cold drink • a periscope • a telescope • magnifier- drop of water on a sticky tape, marble, jar of water • animated movie • a sun canopy, umbrella or beach lounger • a box camera 	<p style="text-align: center;">Design and Make for Properties and Characteristics of Materials</p> <ul style="list-style-type: none"> • waterproof outfit for a teddy or doll • a new waterproof kitchen cloth • an outfit for someone going on holiday to a very hot or a cold place • different varieties of chocolate buns e.g. cereal and chocolate • flavoured ice cream • tea cosy • cover for hot water bottle • refreshments for guests at a concert e.g. iced tea, lemonade, fruit juice etc • papier mache • an instrument to measure the strength of the wind • a bridge that takes account of flexibility, form, stability and strength • a bridge that is stable and holds five toy cars • a small desk for a doll's house • a glider • a parachute • bake bread • an erupting volcano • a house • a filter using a combination of sand, gravel, pebbles etc in plastic bottle • a composter in a plastic bottle
<p style="text-align: center;">Design and Make for Plants and Animals</p> <ul style="list-style-type: none"> • simple bird feeders • plant and animal figures • papier mache models of plants and animals • plant pots using recyclable materials –foil/juice cartons/shoebboxes/eggshells etc • model houses for growing seeds using recyclable materials e.g. shoe boxes, juice cartons • wormery • fishing net for pond dipping • a matching game for tree/animal/plant parts • design your own tree using papier mache, autumn leaves, fabric etc • a bird cake for the bird table in winter – lard balls filled with oats/ cooked rice/ nuts etc. 	<p style="text-align: center;">Design and Make Activities for Environmental Awareness and Care</p> <ul style="list-style-type: none"> • Wormery • Milk Carton Garden • Bird Boxes • Stethoscope • Water Filter • Egg Box Garden • Woodland garden in a bottle • Indoor Compost Display • Milk Carton Bird Feeder • Recycled Paper • Green Schools notice board made from Recycled materials e.g. corks • Hanging containers for plants using old paint cans

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| <ul style="list-style-type: none"> • grass heads using lawn seed, compost (or sand or soil) and pop socks. Use elastic bands or buttons for eyes/ears • a caterpillar observatory • a vivarium and/or woodlouse habitat with different choice of chambers • a pooter for collecting small mini beasts • woodlice choice chamber from old ice-cream or other recyclable containers • a key for identification • a butterfly observatory • a bird bath • a bird table • a tree trail • a nature trail • mobiles of food chains • construct a simple key to differentiate between a small number of common flowers, trees, minibeasts, animals etc • use a computer to design a key • a bottle garden for plants that require heat and humidity • a wigwam in a plant pot for growing peas or beans • a helicopter type seed for flying in the air- use black paper and blu tack as a weight | <ul style="list-style-type: none"> • Milk carton / yogurt pot seed germinator • Flower pots made from varnished papier mache • Flower boxes and containers from reclaimable waste • Decorated jam jars with candles • Christmas present boxes from cardboard boxes and recycled wrapping paper • Grow a tree in a milk carton • Windmill • Water wheel • Solar panel • Pizza box solar oven • Suitable home for a pet/mini-beast/animal • Suitable home for woodlice • Glasshouse • Posters to raise awareness of an environmental issue • Diorama of my favourite place |
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