EARLY YEARS SCIENCE PROVISION MAP

Play, Observe & Ask

Sensory Play

Learn: what lives in a beach habitat; the harmful effect of plastics You need: sensory tray set up as a beach with sand, shells, stones, seaweed, driftwood, feathers.

You could include plastic lids, bottles, forks etc... and learn about the effects of pollution.

Play, observe & ask

- Can you name these objects?
- Where do you find these?
- Can you describe these objects? •
- Can you sort the objects? How will you do this? •
- How can litter hurt sea life? •

Water/Sand Play

Learn: properties of materials by building sandcastles You need: dry sand, water, variety of buckets, hats, mixing tools Play, observe & ask:

- What type of sand makes the best sandcastle? •
- How will you mix the sand? •
- How much water will you need? •
- How much sand will you use? ٠
- Which container is best? Why? •
- How do you know which is 'best'? •

Outdoors

Learn: how wind can change the position or appearance of things You need: pictures of wind erosion, trees, feathers, straws

Play, observe & ask:

- What is wind?
- How do you know if it is windy? •
- Where is it windy?
- Can you make a wind? •
- How can you show me the wind? (Use a feather and a straw.) •
- Can you change the direction of the wind? ٠
- Which object travels furthest in the wind? Why do you think this is?

Small World

Learn: how things move

You need: small world people, 'tuff' tray set up with the different places - tree, beach etc...

Retell the story, noting all the objects and animals that move. Play, observe & ask:

- How did the hat move?
- What was it used for?
- How was the hat reused?
- Was the hat a good habitat?



Construction

Learn: to build strong structures You need: sticks, tape, blocks, construction materials Play, observe & ask:

- Can you build a ladder to get the hat out of the tree? •
- How tall will the ladder be?
- What will you use to make it?
- How will you put the sticks together?
- What shapes will you use?
- Will it be strong? How can you test it?

Play observe & ask:

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- What happens when you place the ball in water?
- •
- Can you make a boat that will float?
- ٠
 - Which is the best boat? (To test how many marbles can your boat hold before it sinks?)

people

Play, observe & ask:

- •
- What will you do if you see a fire? (Fire safety)

Key Science Vocabulary

sand, water, mixture, wet, dry, sticky

(e.g. birds, cats, dogs). seasonal changes) Design and make a hat that will fly.

* ® Plasticine

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Malleable Play

Learn: changing the shape of an object can make it float.

- **You need:** small ball of modelling clay (e.g. Plasticine^{*}), water tray
- Encourage the children to find out whether a ball of modelling clay
- floats. Then make a boat out of the modelling clay.

- What happens when you change the shape of the ball?
- How can you make your boat move? (blowing)

Role Play

Learn: there are some people who help us (firefighter Rosie). You need: role play clothes, fire station set up and small world

- What does a firefighter do? What number do you ring if there is a fire?
- beach, habitat, sand, pebbles, shells, seaweed, rockpools, driftwood, feathers, litter, rubbish, plastic, pollution wind, breeze, blow, flutter, air, move, bend float, sink, shape, ball, flat/flatter/flatten

Further Science

- Find out about the lifecycle and growth of humans and other animals
- Which animals make nests? When does this happen? (relate to
- Reusing materials Why is this a good idea? How can we do this?