# **EARLY YEARS SCIENCE PROVISION MAP**

# Play, Observe & Ask



## **Sensory Play**

**Learn:** sorting and grouping using our senses

**You need:** rattles, shakers, horns, whistles, dataloggers (could be used to measure loudness of sounds)

Explore the different instruments.

#### Play, observe & ask

- What part of the body do you use to hear?
- Which instrument makes the loudest sound? How do you know?
- What happens if you move further away from the sound source?

## **Role Play**

**Learn:** the effects of exercise on the body; similarities and differences between themselves and others

**You need:** football strips, goalkeeper's gloves, inflatable goal, footballs

Play a variety of energetic games.

## Play, observe & ask:

- What happens to your body when you exercise?
- Who can run the fastest? Why do you think this is?
- Who can jump the highest? Why?
- Who can kick the ball the furthest? Why?

#### **Outdoors**

**Learn:** how plants grow

**You need:** mixed grass seed, cotton wool or soil, water Dampen the soil/cotton wool and sprinkle on the grass seed. Observe over the following days/weeks.

#### Play, observe & ask:

- What do the seeds need to grow?
- What changes can you observe?
- How tall is the grass now?
- How many different types of grass can you see?

### Construction

**Learn:** the properties of different materials

**You need:** card, paper, tissue paper, tape, party horns, pictures or video clips of vuvuzelas

Design and make a vuvuzela.

#### Play, observe & ask:

- How can you make a sound with your vuvuzela?
- Which material makes the loudest vuvuzela?

## Malleable Play



**You need:** images of healthy food, modelling clay (e.g. Play-Doh\*) in various colours, laminated place mats or paper plates

### Play observe & ask:

- Can you make a plate of healthy food for a footballer?
- Which healthy foods do you eat?
- What else do we need to stay healthy?

# **FOOTBALL**



## **Small World**

**Learn:** the names of parts of the body

**You need:** small world figures or Subbuteo\* players, grass mat, small balls, Subbuteo\* goals or art straws and modelling clay to construct goals

Play a small world game of football.

#### Play, observe & ask:

- Which parts of the body do you use to move the ball?
- Which body parts should not touch the ball?

## **Water Play**



**Learn:** sinking and floating; sorting according to simple properties **You need:** a selection of balls (e.g. golf ball, football, ping pong ball, cricket ball, rugby ball), water tray.

Put balls into the water tray.

#### Play, observe & ask:

- Which balls do you think will float and which will sink?
- Why do you think some balls sink/float?
- What do you think these balls are made of?

# **Key Science Vocabulary**

body parts - hand, foot, leg, arm, head, etc. sound, loud, louder, quiet, quieter healthy, fruit, vegetables, meat, fatty food, sugary food, sugar exercise, temperature, skin, hot, sweaty, panting material(s) - plastic, rubber, leather, paper, card, wood properties of materials - hard, soft, smooth, rough, sink, float

#### **Further Science**

Consider other sports and how these use different parts of the body more than others (e.g. tennis requires more arm use than football). What movements are similar/different?

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