

# EARLY YEARS SCIENCE PROVISION MAP

## Play, Observe & Ask

### Sensory Play

**Learn:** how cars move on icy roads

**You need:** an icy road made with frozen water on a flat tray, salt, toy dinosaurs, toy cars

**Play, observe & ask:**

- How does an object move on ice?
- How can Dexter and Delilah keep safe when driving on icy roads?
- What happens when we add salt to the road?

### Malleable Play

**Learn:** common features of road vehicles

**You need:** modelling dough, dinosaurs, pictures of cars, and other vehicles

**Play observe & ask:**

- What type of vehicle will you make for the dinosaurs?
- How big will they be? Why?
- What shape will the wheels be? Why?

### Role Play

**Learn:** that some people use vehicles at work (train/bus drivers, police, firefighters, builders, racing drivers)

**You need:** dressing-up clothes, ride-on cars and bikes, models/pictures of machines, e.g. digger, excavator, bulldozer, racing cars

**Play, observe & ask:**

- How do these vehicles move?
- What are the wheels like?
- Where do you see these vehicles?
- What do the drivers do?

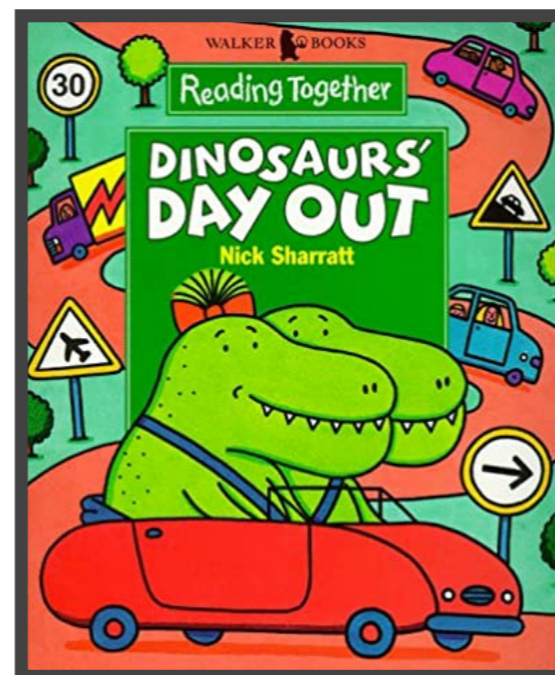
### Construction

**Learn:** that the movement of objects will be different depending on the surface they are moving on

**You need:** bricks, planks of wood, cardboard, carpet, gravel, or look for different surfaces outside

**Play, observe & ask:**

- Can you make different roads for the dinosaurs?
- How do they feel?
- Which roads are best? Why?
- How can you improve the roads?



### Water/Sand Play

**Learn:** that the movement of objects will be different depending on the surface they are moving on

**You need:** toy vehicles, sand, water, gravel, stones

**Play, observe & ask:**

- How does your vehicle move on this surface? Why?
- Can you make it go faster/slower? How do you do this?

### Outdoors

**Learn:** the movement of objects will be different depending on the surface they are moving on.

**You need:** tyres, wheels in different sizes

Move the tyres by rolling

**Play, observe & ask:**

- Can you move these objects easily? Why?
- Which tyres/wheels/vehicles are best? Why?
- How does this surface feel?
- Which places/surfaces are best? Why?

### Small World

**Learn:** that things may move if they are pushed or pulled

**You need:** cars, dinosaurs, vehicles, town, play mat, ramps, access to different surfaces

**Play, observe & ask:**

- Can you retell the story using these vehicles?
- Which vehicles move fast/slowly?
- How can you make the cars go faster/slower?
- How can you make the cars change direction?

### Key Science Vocabulary

ice, water, salt, melt, freeze, frozen

force, push, pull, move, faster, slower

direction - up, down, forwards, backwards

surface, slope, bumpy, flat, smooth, rough

### Further Science

Weather - How does different weather effect travel?

Healthy Food – Can we make the dinosaurs a healthy picnic?