

## Urban Pioneers: SCIENCE- Investigating shadows

LO - Find patterns in the way shadows change throughout the day.			
Success Criteria		Me	Teacher
Observe how shadows change.			
Follow instructions to carry out an investigation.			
Measure and record the results of the investigation.			
Explain how longer and shorter shadows are created.			
Make sure the investigation is a fair test.			
Use what you have learnt to make predictions about where the shadow would be an hour later.			
Compare how the width and length of the shadow changes.			

### Prediction

Will your shadow change throughout the day? How? Why do you think this?

---

---

---

---

---

---

---

---

---

---

### Method

Work in pairs. One child is the shadow maker and one child is the shadow marker. The maker stands in a fixed position while the marker draws around their shadow. Both children then measure the length of the shadow. Go outside and stand in the same position and repeat every

.....

We will make it a fair test by...

---

---

---

---

---

---

---

---

## Results How can you present your results?

*Mild*

How did your shadow change throughout the day?

Why did your shadow move throughout the day?

Spicy

Where is the light source when a long shadow is created?

Where is the light source when a short shadow is created?

Hot

How did you predict where the next shadow would be?

If you did the same investigation every month do you think you would get the same results? Why?