

Name _____

Investigating Shadows - Student Worksheet

In Science we observe and (where possible) measure.



Find a partner and find out if:

1. Tall people always have longer shadows than small people?

2. Your shadows always lie in the one direction?

3. You can cross your shadows with your partner.

4. You can step away from your shadow.

5. With the sun or a light at your back, find a way to change the shape of your shadow.

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6. Can you play shadow tag?

List the ways your shadow are the same as you and different to you.

Same (Compare)	Different (Contrast)

Discuss:

Does your shadow remain if the light goes out.

Will a red torch cast a red shadow?

Will a red balloon cast a red shadow?

Will a red light give a red balloon a red shadow?

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Do the edges of a shadow become crisper or fuzzier with distance from light source?

Why can you have multiple shadows in the classroom but only one outside?