

Carbon Tradies: Worksheet 1 – Erika the Architect

Go to www.missionco2.com, click on Play and watch the introduction to meet the Carbon Tradies. Enter your name to begin.

Select Erika the Architect and watch her introduction for information that will help you with the following questions and activities.



1. Why is it an advantage to live close to your daily needs – school, shops, bus stop, etc?

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2. Consider the location of your particular daily needs. If you could choose to buy a house that would be close to these daily needs where would it be? State the address and explain why you have chosen that location.

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3. On a map of the local area mark in the location of your chosen site and the location of five of your daily needs, using different colours or symbols for each one. Write a legend at the bottom of the map to define the colours or symbols used.

4. Which rooms in a house should receive sunlight? Explain why. Which rooms in a house don't need to receive much or any sunshine? Explain why.

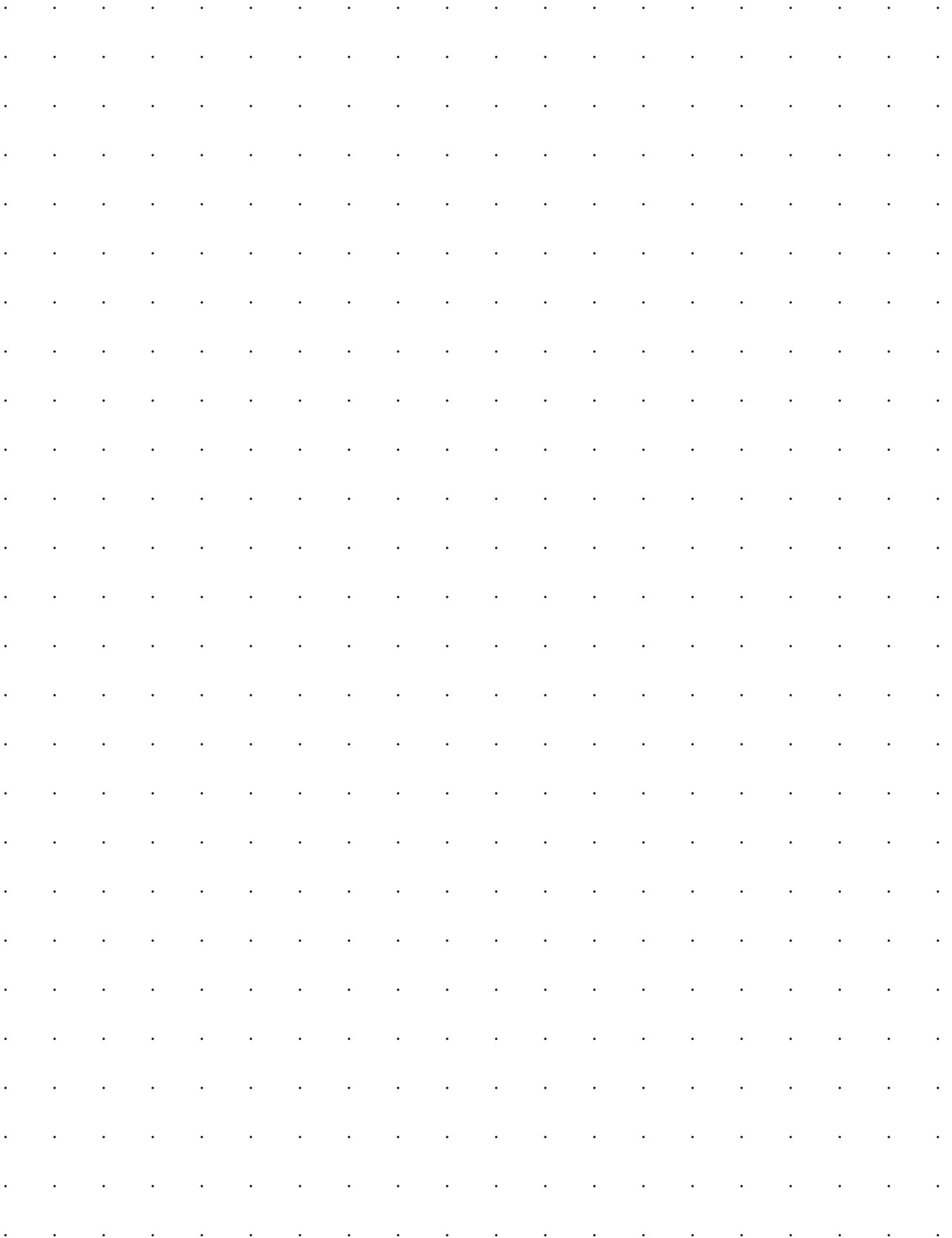
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5. If you were designing a house would you locate the living room so it faces north, south, east or west? Explain why, including how much sunshine you expect the room to receive.

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6. On the piece of 1cm x 1cm grid paper provided (on the next page) draw a floor plan of a house with the following sized rooms and indicate which direction it faces: living room (8mx6m), kitchen (4mx4m), bedroom 1 (6mx4m), bedroom 2 (4mx4m), bedroom 3 (4mx4m), bathroom (4mx2m), laundry (4mx2m), using a scale of 1:100 (1 cm per 1m). You may choose to include hallways if you wish and your house can be any shape. Beside the house draw a compass indicating north.

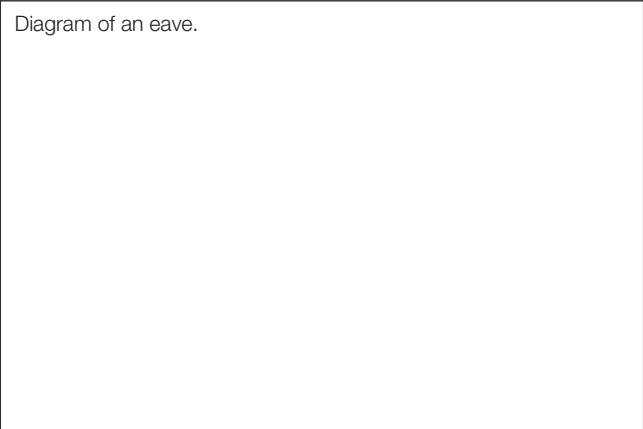
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7. Some houses have eaves. What is an eave? Draw a diagram to illustrate the side of a house with an eave. What advantage do eaves provide?

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8. Look at the houses in your neighbourhood and state to what extent they have wide eaves. State also which direction the walls of the house with wide eaves are facing and the reason for this.

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9. Mark on the house you designed (on grid paper) which walls you would include wide eaves or a verandah, by ruling a dotted line along the walls with eaves.

10. In the area in which you live from what direction do cool breezes blow during the summer?

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11. Mark on the house you designed (on grid paper) where you would locate windows, by ruling a bold line and writing 'W' beside the line. On a summer's evening when a cool breeze is blowing label with 'WO' the windows which you would open to cool the house.

12. In winter what can you do to reduce heat loss after a sunny day?

If you need help go to the Mission CO2 Home page, click on Fun Stuff and Meet the 'Carbon Tradies' and select Erika.

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Further information

For more information on how you can save water at home, work or school visit www.savewater.com.au or contact your local water provider.

