

Name: _____

Group Members: _____

Safety Simon needs your help

The challenge is to design a new smoke alarm that will be sustainable and be able to be use effectively in your home or in a workplace.

Task: Use your design skills and your knowledge that you have developed over this term about circuits to create the ultimate smoke alarm in a group of 3 or partners

The solution: Using your skills of creating a circuit and knowledge about smoke detectors you have developed, you will design a smoke alarm that:

- *Easily installed*
- *Alert everyone in the house*
- *Is powered by circuit using sustainable power*

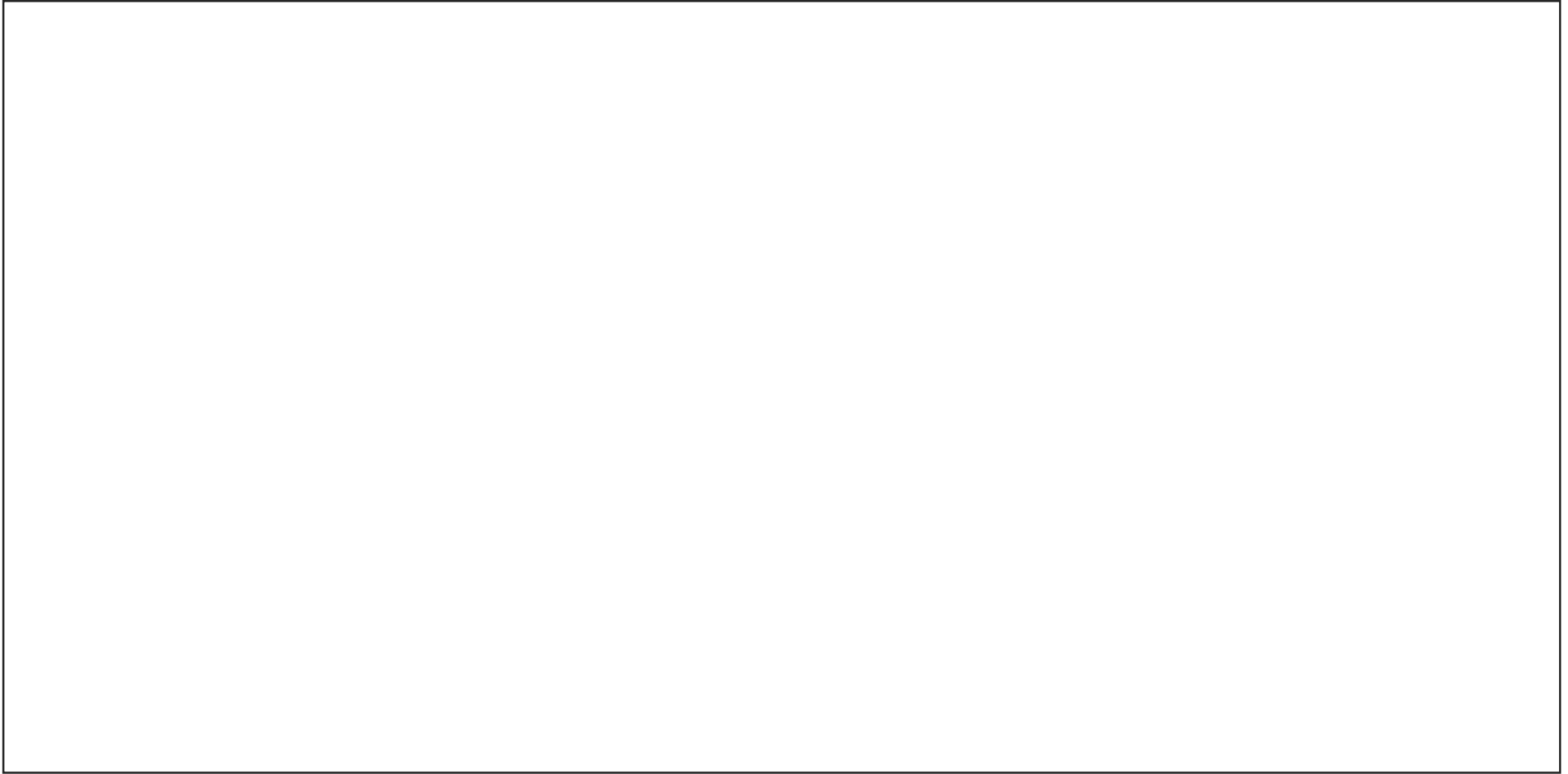
Use the following pages to help you design your smoke alarm

Use the Safety Simon Activity throughout the unit to help you compete the challenge

Design plan:

What does the smoke alarm need?

What will your smoke alarm look like? Draw a picture



What features on the smoke alarm make it easy to install?

What alert does the smoke alarm have?

Design and draw your circuit for your alarm and label features (power, light, sensor)

Brainstorm ideas on how the alarm will be power and reasons why or why not it will work

<i>Power source</i>	<i>Why?</i>	<i>Why not?</i>

Brainstorm ideas on how you will present your design

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EVALUATION:

1. Does your design work successfully? _____

2. If no, explain why: _____

3. What changes could you make to your design to make it more effective?

4. What changes could you make to your design to make it more effective?

PERSONAL PERFORMANCE:

1. How do you feel you worked as a team with your partner?

2. Do you feel that you worked well and contributed to your team?

3. What changes could you make to work more effectively in the future?
