

Name	Class	Date	
Your teacher may watch to see i	f you can:		
 measure volumes using a m 	easuring cylinder		
• use chemicals safely.			

Aim

To find out if plants respire.

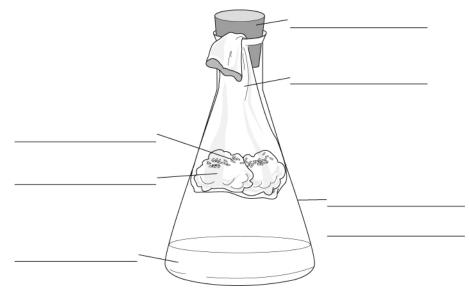
Introduction

When organisms respire, they make a gas called carbon dioxide. If this gas is mixed with a chemical called limewater, it makes the limewater go 'milky'. So, if seeds respire, then they will make some limewater go milky.

Method

Apparatus			▲ Take care with
bungeye protectionmuslin bag	 conical flask limewater seeds	cotton woolmeasuring cylinder	limewater. It can irritate your skin and eyes. Wear eye protection.

- A Measure out 25 cm³ of limewater. Pour this into the conical flask.
- **B** Place some damp cotton wool inside the muslin bag. Then place your seeds on top of the cotton wool.
- **C** Lower the bag into the conical flask and put the bung in the flask. This will hold the bag in place, above the limewater, as shown in the diagram.
- D Wash your hands.



E Label the diagram and complete the sentences on the next page.



You may find these words helpful:

	-				c cotton woo muslin bag		-
l m	easured ou	ut the lime	water using	a		. The seedlings	will start to
			from the		They will	l also release en	ergy using
			. The waste	gas produced	by this process is	6	
Sin	ce this gas	is a wast	e material it	is	We	will detect the p	resence of thi
gas	usina						
	<u> </u>						
Re	cording y	our resu	ılts	the limewater			
Re 1 Co	cording y	your resu	ılts				
Re 1 Co	cording y After nsidering	your resu g your re yo boxes.	ilts days,	clusion		er stayed clear.	

I can...

• use evidence to draw a conclusion.