JUNIOR LYCEUMS ANNUAL EXAMINATIONS 2001

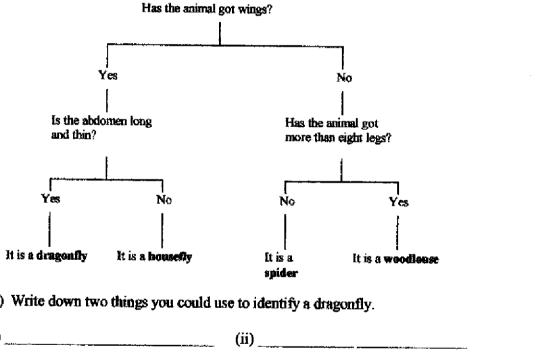
Educational Assessment Unit - Education Division

FORM 1	INTEGE	RATED SCIENCE	Time 1 hr 30 min
Name	••••••••••		Class
1. (a) Christine sees a chemicals.	the following signs on two	o chemical bottles. What d	to these signs tell her about the
Sign		Meaning of sig	1
	i		
(h) Write the name	es of the following appara		(2)
(i)	(ii)	(iii)	(iv)(4)
	e would you give to this ex	- <u>(</u>	
(ii) Name 3 a	pparatus you would use	-	(3)
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
(iii) What wo	uld be the result of this ex	speriment?	(2)

Look at these lists of living things.
 Each list has one living thing that is the 'odd one out'.
 This living thing lives in a different type of place to the others.
 Underline the 'odd one out'.
 Write a reason why you chose this one.

(a)	sheep	cow	octopus	horse	hen	
Reason	n:					(2)
(b) Reason	kangaroo	koala bear	mouse	penguin	rabbit	(2)
(c)	crab	earthworm	ant	woodlouse	snail	(-)
Reason	a:					(2)

3. Here is a key. It can be used to identify four small animals.



(a) Write down two t	things you could use to identify a dragonfly.	
(i)	(ii)	(2)
(b) Write down two t	things you could use to identify a woodlouse.	
(i)	(ii)	(2)
(c) Martha finds an a	mimal with eight legs and no wings. What in the key	y is it?
did to the total of the total o		(1)

	lice prefer to live in dark places rather than light places. Indicate only two sentences.	(4)
	woodlice underneath a stone near a pond or in a piece of do woodlice like as well as darkness?	(1)
He knows that salt dissolved	od sulphur. He wants to separate them. s in water but sulphur does not. r to the mixture, then he stirs it. Explain why he does this.	
(b) He then filters the mixtu	are using this apparatus.	(2)
Label parts 1 and 2 on the	te diagram.	(2)
(c) What substance is left at	1 X?	(1)
(d) What substance is collect	cted at Y?	(1)

Water vapour rises in the	· · · · · · · · · · · · · · · · · · ·			
b) (i) Some ice cubes are pl What happens to the te			es are placed in	the glass?
(ii) Explain why the outs	ide of the glass become			

	ne sugar cubes in wat	er as quickly	,°[]	· ·
c) Ann wants to dissolve so	ne sugar cubes in wat e things she should de	er as quickly).	o di	What the cts the y things
e) Ann wants to dissolve son as possible. Suggest thre	ne sugar cubes in wat e things she should do	er as quickly).	o di	cts the things
c) Ann wants to dissolve son as possible. Suggest thre (i)	ne sugar cubes in wat e things she should do	er as quickly	o di	cts the y things
c) Ann wants to dissolve son as possible. Suggest thre (i)	ne sugar cubes in wat e things she should do	er as quickly	o di	cts the y things solve?
c) Ann wants to dissolve son as possible. Suggest thre (i)	ne sugar cubes in wat e things she should do	er as quickly	o di	cts the y things solve?
c) Ann wants to dissolve son as possible. Suggest thre (i)	ne sugar cubes in wat e things she should de out energy changes.	er as quickly	o di	cts the y things solve?
Ann wants to dissolve sor as possible. Suggest thre (i) (ii) (iii) (iii)	ne sugar cubes in wate things she should do	er as quickly). /hen I paddle a	o di	cts the y things solve?

(c) Write the starting energy and the finishing energy of the following:

	starting energy	finishing energy
a paper pellet is fired from a catapult		
a yoyo is moving up and down		
playing an electric guitar		

7 (a) Write down what each of these instruments is used to measure:

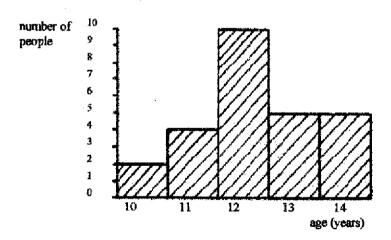
	 a ruler is used to measure	(i)
_	a ruler is used to measure	(i)

(ii) a thermometer is used to measure

(iii) a measuring cylinder is used to measure

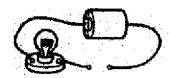
(b) Sue and Maria did a survey in their youth club.

This bar-chart shows the ages of the people in their club:



(a)	How many people are aged 12?	(1)

8 (a) Sara made this circuit to test which things conduct electricity.



Choose the 4 things from this box that would complete Sara's circuit. Place a circle round your answer(s)

rlass	copper	rubber	iron	wood	aluminium	steel	plastic
ook at	each of th	h e circuits sho	wn in the	diagrams. 1	Then answer the	questions	below.
— •—⊗ (i)				(iii)	∎ ⊗ ⊗ (iv)	\ [_	(v)
		are the lamps					
		_	_				•
		_	_				
					e light with an nis is dangerous.		

(1)

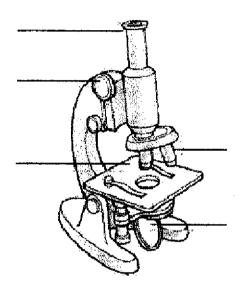
Why is it dangerous?	
Anita is plugging the toaster to the same socket as the washing machine and the kettle. Why is this dangerous?	
Look at these pictures of cells. Cell 1 Cell 2	
(a) (i) Which line is pointing to a cell wall? (ii) Which line is pointing to a chloroplast?	
(iii) Which two lines are pointing to a nucleus?	
(iv) Which is a plant cell?	

(b)	Read these sentences.	Each one is about a part of a cell.	Write its name.

(i) I control what is going on inside the cell.	(1)
(ii) I surround plant and animal cells.	(1)
(iii) I am strong and support plant cells.	(1)
(iv) I am the stuff that cells are full of.	(1)

(c) Look at this picture of a microscope.

Label the parts using the words in the box.



eyepiece,	objective lens,	stage,	focusing knob,	mirror	

(5)