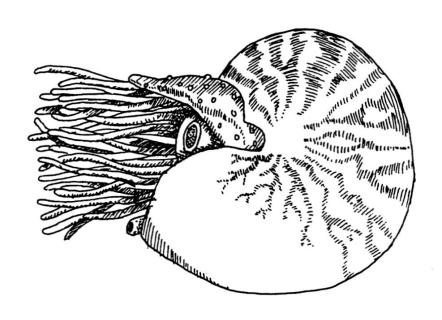
Lyrical Life Science Workbook



By Doug and Dorry Eldon

> Illustrations by Eric Altendorf



How to use this workbook:

The emphasis of this Lyrical Learning project is to help the student learn the language of life science in an enjoyable way through the avenue of song. The worksheets expand on the information from the songs and may be used to reinforce the information. They may be used for review and learning in which the student refers back to the textbook for the needed information, or they may be used as tests. Answers are given in the answer key at the back of the book, including essay answers. (The student's answers need not be worded the same.) You may wish to remove the answer key before the student begins the workbook.

Each song and chapter of the accompanying textbook and cassette are given three worksheets in this workbook. The pages within a given subject section are progressive in that they require deeper levels of understanding.

The first page for each chapter is a fill-in-the-blank lyric sheet to simply reinforce information learned by the song. The student should know the song before attempting the worksheet.

The second page of each chapter contains questions which are objective: true/ false, matching, fill-in-the-blank and short answer—which use information from the song and textbook. These pages require more understanding of the subject matter.

The third page of each chapter contains essay questions which often require a further synthesis and application of the information from the textbook and song. Many of the questions require a greater understanding than the recalling of facts on the objective worksheets.

Even more thought-provoking questions are asked on the third page under the heading DIGGING DEEPER. These questions require further research. The student may not be ready to answer these questions, but it would be worthwhile to read the answers supplied to broaden the student's understanding and promote discussion.

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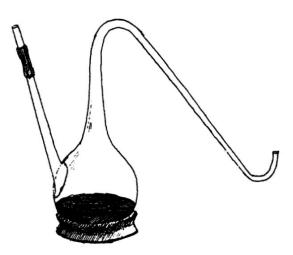
Lyrical Learning 8008 Cardwell Hill Corvallis, Oregon 97330 Telephone 503 754-3579



THE SCIENTIFIC METHOD - Lyrics

Oh, what do you think a	does
To solve af	ound because
Many are se	cientists
'Cause they're great	
There is a	
They go about 'most every	dav
It's and i	
The m	
Chorus: A way to	a problem, a way, a way
The	is a way to solve a
A way, a way, a way to	a problem
A way, a way, a way to so	
A way, a way, a way to so	ive a
It may not seem important	
But the thing that	at they always do
But the thing the Is state the or as	sk a
So they know just what the	y're after
Then they every	
That might help get the	solved
By reading,	_
And gathering	
Chorus	
After both of these	they take
They go ahead and then th	
An educated guess—a	
A possible Then they use	tools
To and tes	t some variables
Inwh	nich are really meant
To give more	nerr are really riseass
Chorus	
-1	
This information they call _	
They put together so that la	
They can analyze and	
To see just what it all mean	
Only when they have done	
testing	
Which may prove, or else	
Then they'll state their	\\
Chorus	//
This is the	W2V
This is the	way
A may use	any Ulu uay
'Cause it's	
The	

Fill in the blanks, you may use words more than once. conclusion data disprove experiments first hypotheses hypothesis information logical measure method methodical problem question researching review scientific scientist scientists solution solve steps synthesize systematic



THE SCIENTIFIC METHOD - Objective

True or false	
1 Pasteur proved that	germs are carried in the air.
2 Microbes can be ea	sily seen.
3 A variable does not	change the outcome of an experiment.
4 Microscopes were f	irst used in the early 1900's.
5 A hypothesis is a po	ossible answer to a problem.
Matching	
6 - Pasteur	A. Following orderly steps
7 - methodical	B. Discovered that microbes were killed by boiling
8 - variables	C. An educated guess, a possible solution
9 - Spallanzani	D. Factors that may affect the result of an experiment
10 - hypothesis	E. Proved microbes were carried on dust in the air
List the six steps of the scientific	c method in proper order:
11 Analyze data	
12 Gather information	
13 State a conclusion	
14 Ask a question or s	state the problem
15 Experiment	
16 Make a hypothesis	
Fill in the blank	
	by conducting
	ed guess or a
	during experiments is often called
20 - A is stated	



THE SCIENTIFIC METHOD - Essay

	pare step one of the scientific method (ask a question or state the problem) solving a math story problem.
- Why	is it important to gather information by reviewing, reading and researching?
- Why	is it important to control variables in an experiment?
- Why	is it important to follow the steps of the scientific method in order?
- Wha	t can be done with data to make it easier to analyze?
- Scien	G DEEPER ntists might not be able to prove that their hypothesis was correct. Why is it ortant for scientists to be willing to admit that their educated guess was wrong, after all the work they did?
law?	nypothesis is a possible explanation or solution, what is a theory and what is a gone.
	V:







