









# WORKBOOK

Grade 2



Name: \_\_\_\_\_

Class:

Teacher: \_\_\_\_\_

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#### The Nature of Science



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#### Part 2

## The Technology and Tools



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### **WORKBOOK CHECKLIST**



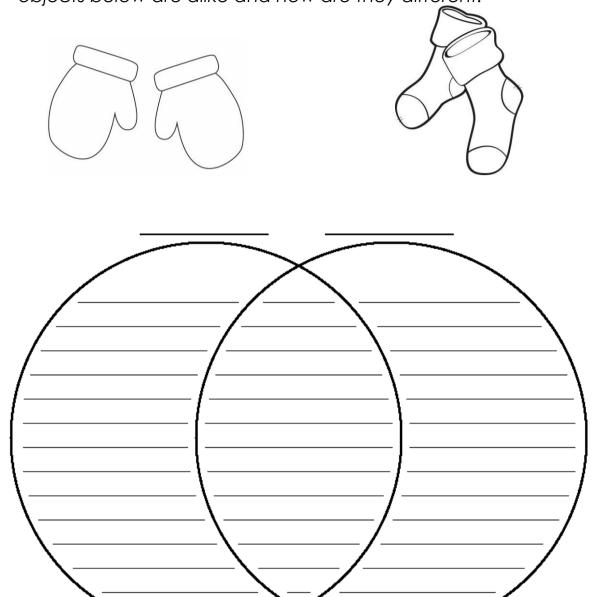
LESSON	Page No.	X	TEACHER'S SIGNATURE	PARENT'S SIGNATURE
Skills Handbo	ook Part 1: The Nat	ure of Scie	ice	
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		Part 1
Name	e:	Date:/
Lesson	n 1: What Questions Do Sc	ientists Asks? (use with pages 174 – 177)
	Words to Know: Write	the word next to the description it matches.
	Scientists	Inquiry
1.	•	are people who study the world around them.
2	•	means asking questions and looking for answers.
	True or False: Write T if	the statement is correct and F if not.
_	3. Scientists <b>use in</b>	equiry to learn.
_	4. Scientists <b>share</b>	what they learned.
_	5. Scientists ask qu	uestions about plants and animals only.
	Explain: Tell if each st	atement is true or false. Explain your choice.
6	. Scientist only ask quest	tions about space.
TI	his statement is	because
_		

7. Scientist discovered that all plants r	need soil to grow.
This statement is	because
Apply Concepts  8. Suppose you were asked to be question would you want to inv	

			Part 1
Name	<b>:</b>		Date: / /
Lesson	2: What Kinds of Skills	s Do Scientists Use?	(use with pages 178 – 181)
	Words to Know: Write	e the word next to t	he description it matches.
	observe	predict	Classify
1.	· <u></u>	means to put th	nings in order.
2.	Youhappen.	when you	tell what you think will
	Youabout something.	when you	use your senses to find out
Д	about something.		
	<u>True or False: Write T</u>	<u>if the statement is c</u>	correct and F if not.
_	4. Scientists do e	experiment <b>once or</b>	nly.
	5. Scientists can	predict without obs	serving.
	6. Scientists find	out what they know	v in <b>many different ways</b> .
Д			
	Apply Concepts		
7.	Suppose that you ar Name three differen flowers.		
_			
_			

8. Compare and Contrast: Use the Venn diagram to tell how the two objects below are alike and how are they different.



					Part 1
Name	·		Date:	:/	_/
Lesson	3: How Do Scientists Use Tool	s and Stay Safe?	(use with pa	ges 182 – 187)	
Д	Words to Know: Write the	vord next to the	e descrip	tion it mate	ches.
	Tool		Measu	re	
1.	is s	omething that	is used to	o do work .	
2.	is t	o find the size o	or amoun	nt of somet	hing.
	<u>True or False: Write T if the</u>	statement is co	orrect and	d F if not.	
	3. <b>All tools</b> help you me	easure.			
	4. A bee scientist <b>wear</b>	<b>s</b> face cover a	nd a boa	ly cover.	
Д					
	Apply Concepts			1	
	Look at the rocks. How cou observe and learn more al	•			
		Joor mese rock	<u>.</u>		
	Explain  Tall if a gab statement is true	a arfaka Evak	ain vour c	phoios	
	Tell if each statement is tru ou should wear safety goog	•	•	noice.	
	is statement is				
11					

7. Scientists take each measure	ement more than	one time.
This statement is	because	
Matching: Draw a line to mo	atch the following	pictures.
8. Measures mass		
9. Measures volume		•
10. To protect your eyes		
		20,79 — 16 OZ — 1 PROT 1/2 — 1
11. Measures temperature		
		(-0)
12. Measures length (long obje	ects)	
13. Measures length (short obje	ects)	
14. Measures how long someth	ning takes	
15 To check if an object is ma	de un	

of certain metals.

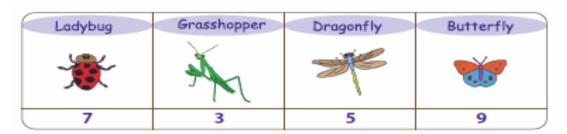
Nam	e:		Part 1
Lesso	n 4: How Do Scientis	sts Find Answers? (use w	ith pages 188 – 191)
	Words to Know:	Write the word next to	the description it matches.
	Conclusion	Hypothesis	Scientific Methods
1		are ways of fir	nding answers.
2		is a possible a	nswer to a question.
3		is what you de	ecide after you think about all
	True or False: Wri	te T if the statement is	correct and F if not.
_		· · · · · · · · · · · · · · · · · · ·	supports the hypothesis.
_		_	re they draw conclusions.
	6. <b>Sometime</b>	<b>s</b> , scientists do scientit	ic method in <b>different order</b> .
	<u>Explain</u>		
7	. In Scientific Meth record your datc	•	do after you collect and
	3. Why do scientists	repeat their investigo	ation?

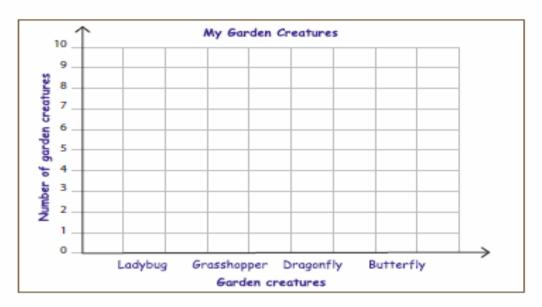
Apply Concepts
9. A scientist wants investigate how much water a plant needs each day. What should the scientist do to find out?
10. Arrange the following steps in scientific method. Write numbers 1-6 inside the box.
Do your test
Plan a fair test  Materials  Conclusion Conclusion
Make your Hypothesis
Collect and record your data
Ask a question
Tell your conclusion

		Share Data? (use with	
Words to Know Data	v: Write the wor Chart	rd next to the descr infer	<u>iption it match</u> Bar grapl
	is w	hat you observe.	
•	helps	s you organize dato	1.
	helps	s you compare dat	a.
explain someto	ning. <u>Write T if the sta</u>	when you use who	,
	<b>your senses</b> to ts <b>use charts ar</b>	o collect aata. Ind graphs to show o	data.
		ind patterns when t	
Apply Conce		ople in your hand.	



9. Graph the given data below, then answer the question.





**Draw Conclusions:** How many more butterflies are there than grasshoppers?

.\_\_\_\_\_

			Part 2		
Name	<b>:</b>		Date: / /		
Lesson	1: What Is Technology?	(use with pages 218 – 221)			
Д	Words to Know: Write the word next to the description it matches.				
	Invent	Engineers	Technology		
1.		are people who de	sign new things.		
2.		is the use of Science	e to solve problems.		
3. 111		 means to make son	nething for the first time.		
	True or False: Write T	if the statement is corre	ct and F if not.		
	4. Cars and trains	s are <b>technology</b> .	(0,0 0000) (0,0 0000) (0,0 0000)		
	5. Technology <b>do</b>	<b>bes not solve</b> every prol	olem.		
	6. Technology <b>m</b>	<b>akes things harder</b> for p	people.		
	7. Technology <b>co</b>	an help people to stay i	nealthy.		
	Explain: Answer the o	questions below.			
8. _	ls a spoon technolog	y? How do you know?			
_					
_					
_					

9. You follow direction paper airplane? Exp		er airplane. Do you invent the not.
		ou use everyday. Tell what
problem this techn	ology solves.	
Circle the objects of	considered as tec	hnology.
Entrant 12		

				Part 2	
Name					
Lesson	2: How Do People	Design New Th	nings? (use with	h pages 222 – 227)	
	Words to Know: Write the word next to the description it matches.				
	Goal	М	aterial	Solution	
1.		is the	answer to	a problem.	
2.	A	is v	what sometl	ning is made of.	
3.		is so	mething tha	at you want to do.	
		ite T if the sta		orrect and F if not.	
		•	•	e <b>are the same</b> .	
	6. Sometimes, engineers plan and draw <b>more than once</b> .				
	7. Engineers	need to set	<b>goals</b> to find	d a solution to a problem.	
	Explain: Read the through 5 to put		_	ocess. Number them 1 er.	
	Make a	test		Plan and draw	
	Find a pi	roblem		Record and share	
			Choose mo	aterials	



### **Apply Concepts**

9. An engineer designed this lamp and tested it. The lamp fell over every time the cord was pulled. How could the engineer solve this problem?

		Part 2
Name:		Date:/
Lesson 3: Hov	v Do We Use Tools an	d Machines? (use with pages 228 – 233)
Word	ds to Know: Write th	ne word next to the description it matches.
	Machine	Simple machine
1. A		is a tool that can make work easier.
2. A		is a tool with few or no moving parts.
True o	or False: Write T if th	e statement is correct and F if not.
3.	. <b>Only humans</b> can	use body parts as tools.
4	. There is <b>only one I</b>	type of tools and machines.
5.	You <b>can use some</b>	e parts of your body as tools.
6	. Sometimes, tools o body cannot o	and machines <b>can do things that your</b> do.
Explo	<u>ıin</u>	
7. What	is an inclined plane	e? How does it help you work?



#### **Apply Concepts**

8. A mover needs to the first floor to the not fit through the machine might he		
Label the simple	machines below.	
Pulley	Wedge	Inclined plane
Leve	Scre	