

PEARSON



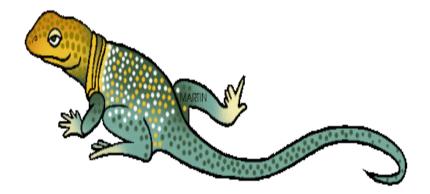






# **WORKBOOK**

Grade 5





Name:			 _

Class:

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

# **Table of Contents**



## Part 1

## The Nature of Science



Lesson 1	1
Lesson 2	3
Lesson 3.	5
Lesson 4	7

#### Part 2

# **Design and Function**



Lesson 1	9
	·
Lesson 2	11
Lesson 3	1.3
	. 0

# Chapter 3

# **Growth and Survival**



	CONTRACTOR OF THE PARTY OF THE
Lesson 1	13
Lesson 2	15
Lesson 3	17
Lesson 4	19
	- 1



# **WORKBOOK CHECKLIST**



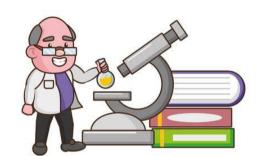
LESSON	Page No.	X	TEACHER'S SIGNATURE	PARENT'S SIGNATURE
Skills Handbo	ook Part 1: The Na	ture of Sci	ence	
LESSON 1	pp. 1 – 2			
LESSON 2	pp. 3 – 4			
LESSON 3	pp. 5 – 6			
LESSON 4	pp. 7 – 8			
Skills Handbo	ook Part 2: Design	and Funct	ion	
LESSON 1	pp. 9 – 10			
LESSON 2	pp. 11 – 12			
LESSON 3	рр. 13– 14			
Chapter 3: G	rowth and Surviva	ı		
LESSON 1	pp. 15 – 16			
LESSON 2	pp. 17 – 18			
Lesson 3	pp. 19 – 20			
LESSON 4	pp. 21 – 22			





9.	. Suppose a scientist wants to begin an investigation about water pollution is. Wha resources should the scientist use to research water pollution? What are some examples of reliable resources?



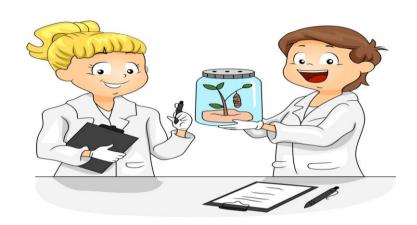


Name	e:	Date:	Part 1
Lesson	2: How Do Scientists II	nvestigate? (use with pages 328 – 335	)
$\overline{\mathbb{Q}}$	Words to Know: Write the	word next to the description it ma	tches.
	Models	Experiment (	Control group
	1	is s standard against which	change can be measured
	2	is the use of scientific meth	od to test your hypothesis
	3	are objects or ideas that re	present things.
	True or False: Write T if th	ne statement is correct and F if not.	do an experiment
	4. There is <b>no si</b> i	<b>ngle scientific method</b> for finding an	nswers.
	5. Scientists <b>do I</b>	<b>not use</b> survey to investigate.	THE STATE OF THE S
	6. Scientists <b>mig</b>	<b>tht not use all the steps</b> in the scient	ific method.
	7. For a fair test, variables the	, choose <b>just one variable</b> to change <b>same.</b>	e and keep all of the <b>other</b>
Д	Tell if statement is TRUE	or FALSE. Explain your choice.	
	8. The only way to test o	a scientific hypothesis is to perform o	an experiment.
	This statement is	because	
	9. The steps used in sci	ientific methods must always be per	formed in the same order.
	This statement is	because	





10. Suppose two scientists perform the same experiments separately, but their resare very different. What could they do to find out why this happened?			results		



me:			Date:	Part 1
on 3: Ho	w Do Scientists Co	ollect and Interpret D	ata? (use with pages 336	- 343)
<u>Words</u>	to Know: Write the	word next to the descrip	otion it matches.	
<b>S</b>	Data	Accuracy	Precision	
1		is when measure	ements are consistently	repeated.
		are information drawn or a prediction is when measure measurement.	iction can be made.	
<u>Tell if</u>	statement is TRUE o	or FALSE. Explain your ch	oice.	
	ı collect, organize or ical conclusion.	interpret your data prop	erly, you will always be	able to drav
_		because		
safe.		ully through the instructio		
6. Nam		tists use that performs a . from the microscope?	similar function as the r	microscope.



# Complete the table below.

	Name	Use / Function
MIN SEC		
SSP CONTROL OF THE PARTY OF THE		
12374218.75  MC M* M* M* MR  C		
100-1 = 30 100-1 = 30 00-1 = 30 00-1 = 10 00-1 = 10		
18 (24 ) 38 (25 ) 38 (27 ) 38		

Name:	·	Date	:
Lesson	4: How Do Scientists Suppor	t Their Conclusions?	(use with pages 344 – 347)
	Words to Know: Write the wor	d next to the description	n it matches.
	Evidence	Inference	Procedures
1.	·	_ facts that make you b	elieve that something is true.
2.	·	_ a conclusion based on	evidence.
3.	·	_ step by step instructio	ns for completing a task.
	True or False: Write T if the sta	tement is correct and F	if not.
	4. Scientists do not de	efend their conclusions	during an investigation.
	5. Scientists <b>do not sh</b>	<b>are</b> their results with ot	hers.
	6. During a scientific in unexpected.	nvestigation, evidence r	may <b>show results that are</b>
	7. In Science, commun	nication is <b>important.</b>	
Д	Tell if statement is TRUE or FAL	SE. Explain your choice	<u>.</u>
	8. If you replicate another science results, it means you perform	_	
	This statement is		
			tion if he has watched someone
		because	
		ny.	



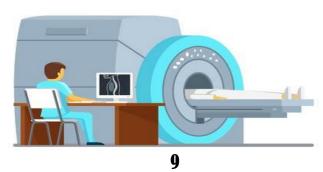
ippose a friena wants to fina out now many cute pets live in ner eighborhood. Could this information be used in a scientific investigation?
/hy or why not?



# <u>Determine whether each statement is a fact or opinion. Color the box opposite your answer.</u>

STATEMENTS	FACT	OPINION
a. Bird's beak have different functions.		
b. Gathering scientific data can be easy.		
c. Mammals are more interesting than fish.		
d. Evidence is more important than any other part of science.		
e. Mass is the amount of matter in a solid, a liquid or a gas.		
f. A graduated cylinder is used to measure the volume of solid and liquid.		

on sources.
hat solve
ine.
ation more
SHEDSOID
1820
erson's
i





9. How are stone tools or sharp sticks technology?

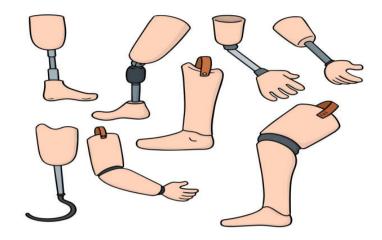








9. Explain how the prosthetic limbs mimic the human muscular and skeletal systems.

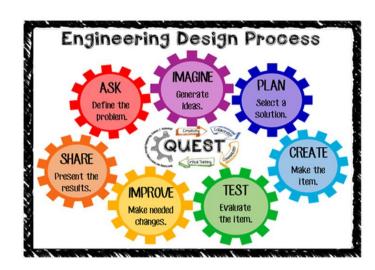


Part 2 Name: Date: **Lesson 3: What Is Design Process?** (use with pages 380 – 387) Words to Know: Write the word next to the description it matches. **Design Process Prototype** 1.\_\_\_\_\_ an early version or model of a product. 2. is a set of steps for developing products and processes that solve problems. True or False: Write T if the statement is correct and F if not. \_\_\_\_\_ 3. The **first step** in the design process is to identify a need or problem. 4. Scientific journals, magazines, the internet, informational books and encyclopedia cannot be helpful as you study ways to solve a design problem. 5. Throughout the design process **it is important** to document your work. Tell if statement is TRUE or FALSE. Explain your choice. 6. The testing step in the design process of a new product make sure that everyone can use the product. This statement is \_\_\_\_\_\_ because \_\_\_\_\_ 7. Engineers and scientists redesign a prototype if it does not work correctly. This statement is because

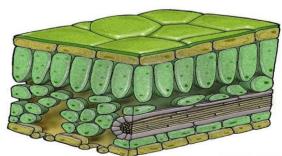




8. In the design process, why you might need to repeat some steps in the process?

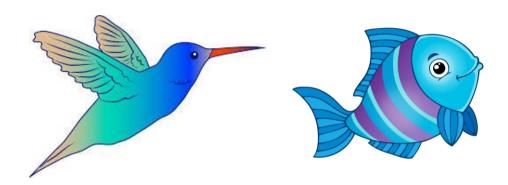


ne:		Da	te:		3
n 1: What Are Som	ne Physical S	tructures In Livin	g Things?(	use with pages	s 109 – 113)
Words to Know: W	rite the word i	ord next to the description it matches.			
Exos	skeleton	Spiracles		Stomata	
<ol> <li>2</li> </ol>		gases pass.		-	
3		are air holes on the s	skin of insec	t's body.	
True or False: Write	T if the state	ment is correct and I	if not.		
things things 6. Plants	uction is the plant of the plant is the plan	rocess by which living themselves. latory system is calle E. Explain your choic e is to support the bo	ed <b>vascular</b> (		r living
This statement	is	because			
8. Plants can have	e a circulatory :	system.			
This statement	is	because			





9. How are the parts of birds and fish similar in structure and function?



Name	e:		Date:	Chapter 3		
Lesson	2: How Do Adaptations He	IP Plants? (use with p	pages 114 – 119)			
	Words to Know: Write the word next to the description it matches.					
	Adaptation	Mutation	Succession	,		
	1 2	better in its enviro	onment.	nism to survive		
3	·	is the predictable of after a change oc		mmunities		
	True or False: Write T if the st	t <b>atement is correct an</b> elop over <b>many gener</b> o				
	5. Different combine			it different.		
_	6. Plants that are ab	ble to adapt to the env	vironment are <b>more li</b> l	kely to die or		
	Answer the question below ar	nd explain.				
	7. What adaptation might h	elp a plant survive in o	an environment with o	cold winters?		
	8. Why might a plant that no different environment?	ormally grows in one e	environment not grow	well in a		





9. What might happen to a plant that has a genetic mutation that results in shorter roots?









9. How can people help protect animals from extinction?

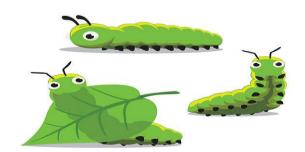


Chapter 3

Name:	Date:
-------	-------

Words	s to Know: Write the	word next to the description	on it matches.
<b>D</b>	Life cycle	Metamorphosis	Molting
		its life cycle is the process by whi	ch animal changes in form during ch animals shed off its outer
3.		covering.	arouth and doath that all animal
3		is a pattern of birth, share.	growth and death that all animal
True o	or False: Write T if the	e statement is correct and	F if not.
,		pole grows legs and its tails	
	5. A chrysalis or p	oupa <b>provides protection a</b> rfly	<b>nd a place to change</b> for a
		ave <b>four stages</b> of developn	nent go through <b>incomplete</b>
<u>Tell if</u>	statement is TRUE o	r FALSE. Explain your choic	<u>ce.</u>
<b>\</b>		r FALSE. Explain your choid	

5	tamorphosis during their life cycle because	
11113 Statement 13		
3. Caterpillar is the pupa in the	e life cycle of butterfly.	
	. ,	
	. ,	
	. ,	





the metamorph ? Give example	ibians and re <sub>i</sub>	otiles alike? H	ow are they

