SCIENCE F WEEK 1 SCHEDULE

Date:	Day 1 1	Day 2 2	Day 3 3	Day 4 4	Day 5 5
The Usborne Complete Book of the Human Body	pp. 6–9	pp. 10–11	pp. 12–13		
Activity Sheet Questions	#1-3	#4–6	#7-9		
Blood and Guts				pp. 71–74	
Activity Sheet Questions				#10–12	
5-Day: Understanding Your Brain					pp. 2–5
5-Day: Activity Sheet Questions					#13–15
5-Day: <i>The Human Body</i> Activity Book		pp. 1–2 N	p. 73		
Optional: Do Together	Listen to Your Children			Testing Temperature	
Optional: Lyrical Life Science, Vol. 3—The Human Body	chap. 1				

Vol. 3—The Human Body

Other Notes

The Usborne Complete Book of the Human Body | pp. 6–9

You may wish to view Human Anatomy Online located on our IG links page. ☐ [p. 1]

"Amazingly complicated" are the words the book uses to describe the human body. And they're right! Psalm 139:13–14 reads, "For you created my inmost being; you knit me together in my mother's womb. I praise you because I am fearfully and wonderfully made; your works are wonderful, I know that full well" (NIV). This is a fitting passage to review in preparation for the study of the human body. Did all these "hundreds of different" parts and "millions of microscopic units called cells" come together through chance, an undirected natural process, or through God's design? [p. 7]

Activity Sheet Questions | #1-3

Activity Sheets

Activity Sheets are included after the notes and are assigned on each schedule page. Each Activity Sheet has a corresponding Answer Key page following these schedule pages.

You do not have to do every question on the Activity Sheets. Feel free to adjust and/or omit activities to meet the needs of your children. We cover the same concepts repeatedly throughout the year (and years to come!) to enable students to learn "naturally" through repetition and practice over time.

Feel free to let your children do those activities that they enjoy and simply talk through others. We have provided space for you to fill in answers as your children respond verbally, or simply check off the items that you discuss.

Remember: This program is designed for you to use to meet your children's needs. It is not meant to use you!

Suggestion: Your Activity Sheets might work more easily in a small binder for your children to keep and use as assigned. If you have more than one child using this program, extra Activity Sheets can be purchased for each child (Item # FSG1).

Optional: Do Together | Listen to Your Children

Each week throughout Science F, we will provide ideas for fun activities to do with your children. In general, we will try to make the activities actually "active": performing additional research on a particular topic, watching a video, playing a game, getting outside, or some other type of "hands-on" activity that seeks to apply what your children have been learning in a meaningful way.

Take our ideas for what they are—mere suggestions—and don't feel enslaved to them. If your children don't want to do a particular activity or have a different, better idea, by all means ditch ours and go with theirs!

Put this attitude into practice today by actively listening to your children. As they embark on their study of the amazing human body, what interests them? What do they want to learn more about? What do they not have an interest in? Do they have any ideas for fun activities they could do that have to do with learning more about the human body?

Make a list of their thoughts and ideas. Then let them pick one to do today. In this way, you will let them know that their opinion is important. Children who feel they have an important, active role in determining what they learn about will be more engaged in their studies. Have fun and treasure these times together.

Optional: *Lyrical Life Science, Volume 3—The Human Body* | Chapter 1

If you have chosen to add this optional book to your curriculum, here is a suggested way to fit it into your daily schedule

On Day 1, listen to the song, reading the lyrics as you listen.

Depending on whether you're doing the 5- or 4-Day schedule, you'll be doing either two or three days of reading the text and listening to the song once each day.

On the last day of the week assign as many of the questions in the *Lyrical Life Science* workbook as you feel would be comfortable and most beneficial for your children.

Day 2

The Usborne Complete Book of the Human Body | pp. 10–11

Activity Sheet Questions | #4-6

5-Day: The Human Body Activity Book | pp. 1–2

Note: You will use this book if you are following the 5-Day schedule, however we schedule the book on days other than Day 5.

Note: Some of the vocabulary used in this book is very advanced. Please do not be concerned if your children do not know some of the words presented. We have provided this book as a supplement to your study, and your ADVANCED student may want to research the parts of the body terminology not covered in our Instructor's Guide, but listed in this book.

Here are some helpful hints to assist you and your children in labeling the diagrams in *The Human Body* Activity Book:

The Human Body Activity Book is a helpful resource to visually reinforce some of the facts your children are learning in our other scheduled science books and from other sources. You can find additional information in dictionaries, encyclopedias, or on the Internet to enhance the meaning of the exercises and to match the parts correctly.

- 2. The answer key for each diagram provided for you in the back of *The Human Body* Activity Book can serve as a helpful guide.
- 3. One of the benefits of the program is that it is designed for you to be involved with your children. We suggest that you let your children complete the portions they can alone, then work through the answer key with them.
- 4. We have found this book a very helpful source of clear and simple illustrations. Feel free to use this book as you see fit.

Note: The Human Body is a book full of Activity Sheets that relate to this year's topic of study. However, we have not assigned all of the pages. Please feel free to do any remaining pages as you see fit.

Note to Mom or Dad: CAUTION! The Human Body is a "Reproducible Activities" booklet (the pages are meant to be photocopied prior to use), rather than a traditional workbook. So, if you aren't careful, cutting up one activity page may result in the destruction of the next activity on the reverse side of the page! To avoid making this mistake, simply plan to review The Human Body assignments each week in advance, and make photocopies of any cut-out activity pages prior to the lesson.

Day 3

The Usborne Complete Book of the Human Body pp. 12-13

Cells are a lot more complicated than people used to think. So how did the first cells come about? Different people have come to different conclusions. Some think that the first cells came about as a random result of various chemicals in the earth's atmosphere coming together in just the right way, while others see the complexity of cells and come to the conclusion that they must have been specially designed. In looking at the illustration of a cell on page 13, what do you and your children think is the explanation for the origins of the first cells?

Activity Sheet Questions | #7–9

5-Day: The Human Body Activity Book | p. 73

Day 4

Blood and Guts | pp. 71–74

Cells, even so-called simple cells, are a lot more complicated that most people think they are. They are like tiny factories with many parts doing exactly what they need to do to keep things going. Some microbiologists are convinced that design is at work at the cellular level rather then being the result of an undirected process. They point, for instance, to what is termed irreducible complexity or specified complexity as evidence of design in cells. You and your children will learn more about this concept in the DVD *Unlocking the Mystery of Life.* [p. 71]

Activity Sheet Questions | #10–12

Optional: Do Together | Testing Temperature

As noted in Blood and Guts, the "normal" human temperature is 98.6 degrees Fahrenheit. Talk with your children about their "normal" temperature. Do they normally measure 98.6 degrees Fahrenheit? Or a bit above or below that level?

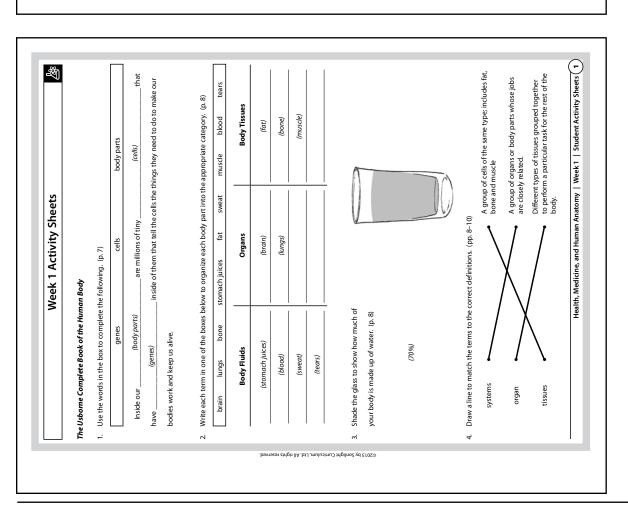
Test to see what effect a cold shower or vigorous exercise might have on their temperature. To start, take their temperature at rest. Then have them take a cold shower or bath. Take their temperature again. Did it decrease? When they're dressed, have them engage in some vigorous exercise, such as running a mile or doing 100 sit-ups, push-ups, or jumping jacks. Take their temperature one last time. Did it increase?

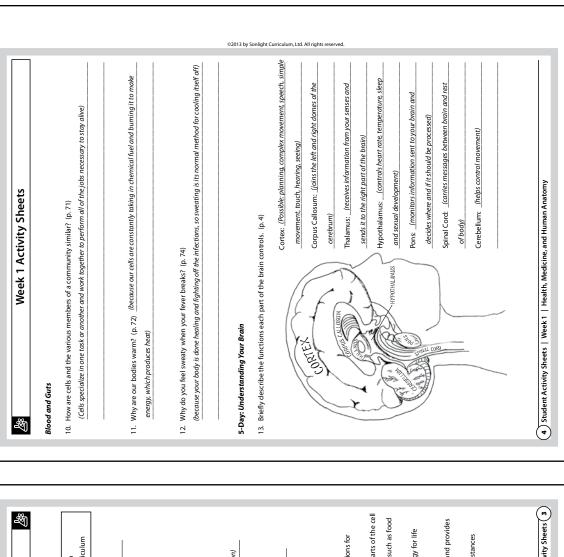
Be sure to discuss with your children how their body temperature is a good indicator of what is going on inside their cells. Reinforce how important it is that they tell you if they ever feel "too hot" or like they're running a fever.

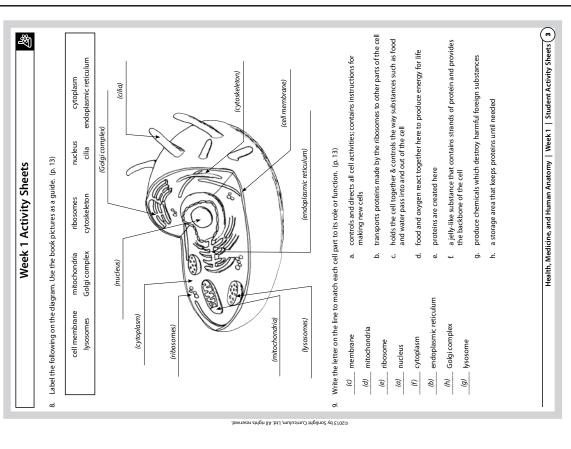
Day 5

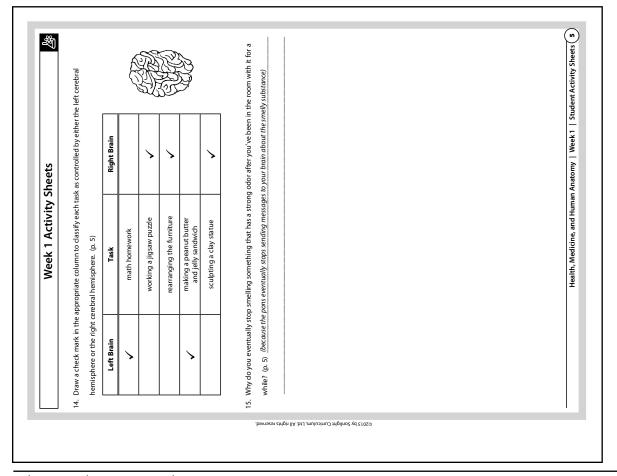
5-Day: *Understanding Your Brain* | pp. 2–5

5-Day: Activity Sheet Questions | #13-15 ■









Week 1 Activity Sheets



The Usborne Complete Book of the Human Body

1. Use the words in the box to complete the following. (p. 7)

cells body parts genes

Inside our _____ are millions of tiny _____

have _____ inside of them that tell the cells the things they need to do to make our bodies work and keep us alive.

2. Write each term in one of the boxes below to organize each body part into the appropriate category. (p. 8)

brain	lungs	bone	stomach juices	fat	sweat	muscle	blood	tears
	Body Fluid	0	rgans			Body Tissue	es	
			_					
			_					
			_					
			_					

3. Shade the glass to show how much of your body is made up of water. (p. 8)



- 4. Draw a line to match the terms to the correct definitions. (pp. 8–10)
 - systems

organ

- tissues

- A group of cells of the same type; includes fat, bone and muscle
- A group of organs or body parts whose jobs are closely related.
 - Different types of tissues grouped together
- to perform a particular task for the rest of the body.

Week 1 Activity Sheets

- 5. Match each body system to the main task(s) each performs. (pp. 10–11)
 - skeletal
- •
- muscular
- skin, hair and nails
- digestive
- nervous
- respiratory
- circulatory
- endocrine
- urinary
- reproductive •

- extracts oxygen out of the air and passes it to the rest of your body; gets rid of waste gases
- the male and female body systems that each play a part in making babies
- gives your body its shape; joints link its pieces together
- sends messages and instructions from your brain to the rest of your body
- hold you up and make you move
- makes hormones that control how your body grows and changes
- protects you from dirt and danger; helps control your temperature
- pumps blood that carries food, oxygen and other chemicals to all of your cells
- changes food into energy
- filters waste water and chemicals out of your blood to pass out of your body
- 6. Think of one body part that belongs to more than one body system and explain how

it serves both systems. (p. 10)



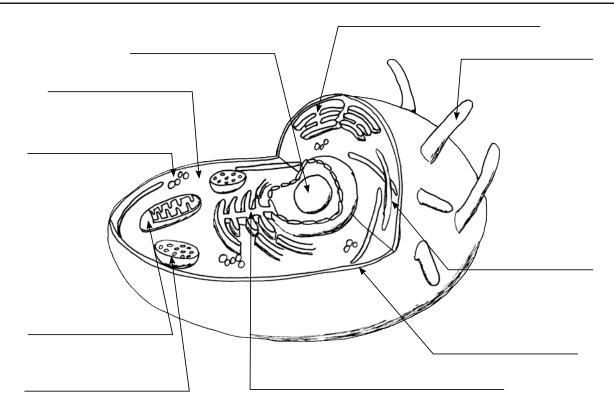
7. How do cells make the different proteins they need to do various jobs around your body? (p. 12)

Week 1 Activity Sheets



8. Label the following on the diagram. Use the book pictures as a guide. (p. 13)

cell membrane mitochondria ribosomes cytoplasm nucleus lysosomes Golgi complex cytoskeleton cilia endoplasmic reticulum



Write the letter on the line to match each cell part to its role or function. (p. 13)

membrane

mitochondria

ribosome

nucleus

cytoplasm

endoplasmic reticulum

Golgi complex

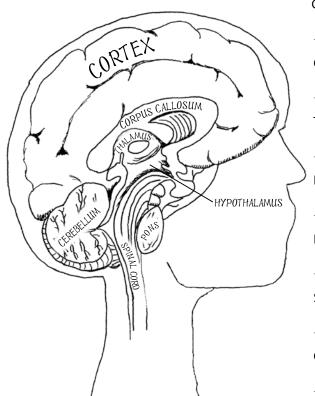
lysosome

- a. controls and directs all cell activities; contains instructions for making new cells
- transports proteins made by the ribosomes to other parts of the cell
- holds the cell together & controls the way substances such as food and water pass into and out of the cell
- d. food and oxygen react together here to produce energy for life
- proteins are created here
- a jelly-like substance that contains strands of protein and provides the backbone of the cell
- produce chemicals which destroy harmful foreign substances
- h. a storage area that keeps proteins until needed

12. Why do you feel sweaty when your fever breaks? (p. 74)

5-Day: Understanding Your Brain

13. Briefly describe the functions each part of the brain controls. (p. 4)



Cortex: _	 	 	

Corpus Callosum:

Thalamus: _____

Hypothalamus: _____

Pons: _____

Spinal Cord: _____

Cerebellum:

Week 1 Activity Sheets



14. Draw a check mark in the appropriate column to classify each task as controlled by either the left cerebral hemisphere or the right cerebral hemisphere. (p. 5)

Left Brain	Task	Right Brain
	math homework	
	working a jigsaw puzzle	
	rearranging the furniture	
	making a peanut butter and jelly sandwich	
	sculpting a clay statue	



15. Why do you eventually stop smelling something that has a strong odor after you've been in the room with it for a while? (p. 5) _____

SCIENCE F WEEK 2 SCHEDULE ₇ Day 3 8 Day 4 9 Day 5 Date: Day 1 6 Day 2 The Usborne Complete pp. 68-69 pp. 65-67 **Book of the Human Body Activity Sheet Questions** #1-3 #4-6 **Blood and Guts** pp. 75-78 pp. 79-82 **Activity Sheet Questions** #7-8 #9-14 5-Day: pp. 6-9 **Understanding Your Brain** 5-Day: #15-19 **Activity Sheet Questions** 5-Day: The Human Body pp. 33, 35 pp. 36-37 **Activity Book Optional: Do Together** Food Journal Food Journal Amylase in Action Prep N

Optional: Lyrical Life Science, Vol. 3—The Human Body

chap. 7

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Other Notes

The Usborne Complete Book of the Human Body | pp. 65–67

Activity Sheet Questions | #1-3

5-Day: The Human Body Activity Book | pp. 33, 35

Optional: Do Together | Food Journal Prep

Note to Mom or Dad: Tomorrow you and your children will keep a food journal. Read through the activity and make sure you will be ready to begin.

Optional: Lyrical Life Science, Volume 3—The Human Body | Chapter 7 (all week)

Day 2

The Usborne Complete Book of the Human Body | pp. 68–69

Activity Sheet Questions | #4–6

5-Day: The Human Body Activity Book | pp. 36–37

Optional: Do Together | Food Journal

Have your children ever given much thought to exactly how much of what types of food and drink they use to power their amazing human bodies? Today, encourage them to keep track of everything they ingest. Ask them to keep a detailed food journal by recording everything that they eat or drink today, including details of the exact types and amounts of the foods and drinks they choose.

In addition to the nitty-gritty details of the foods and drinks they partake of, ask them also to record how they feel throughout the day. Are they tired? Energetic? Sleepy? Alert? Does how they feel change throughout the day?

When the day is done, ask them to look back over their journal entries for the day. Does anything surprise them? Can they believe they ate that much of X? Did they realize they only drank Y glasses of water? Do they see any correlations between how they felt at certain points in the day and what they had been eating or drinking?

Use this time to reinforce what your children have learned this week about food and their digestive systems. Do you see anything in their daily eating/drinking routine that needs some attention? Do they need to eat less junk food? Drink more water? Use this exercise as a way to discuss changes you'd like to see. You can even continue their journalling from time to time to look for improvements.

Day 3

Blood and Guts | pp. 75-78

Activity Sheet Questions | #7–8

Optional: Do Together | Amylase in Action

Grab some soda crackers and put your children to work testing the action of Amylase, the starch-into-sugar enzyme present in our mouths. As described in Blood and Guts, have your children chew a soda cracker completely, but ask them to hold it in their mouths for five minutes rather than swallowing immediately.

When the five minutes have elapsed, ask your children what they feel in their mouths. What do they taste? Do the soda cracker remains have the same starchy taste as when they began chewing? Why not? What can they tell about the effect the Amylase has had on the starchy soda cracker?

Day 4

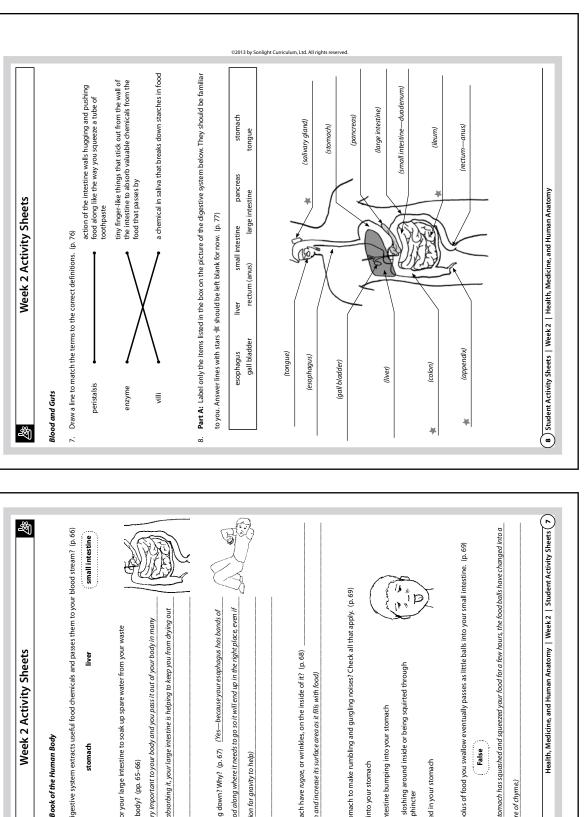
Blood and Guts | pp. 79-82

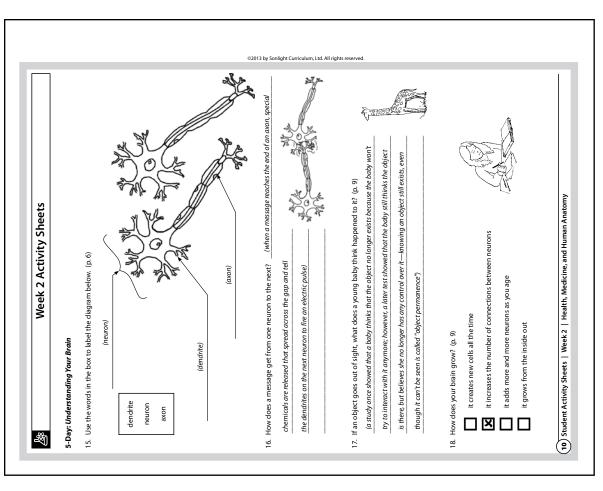
Activity Sheet Questions | #9-14

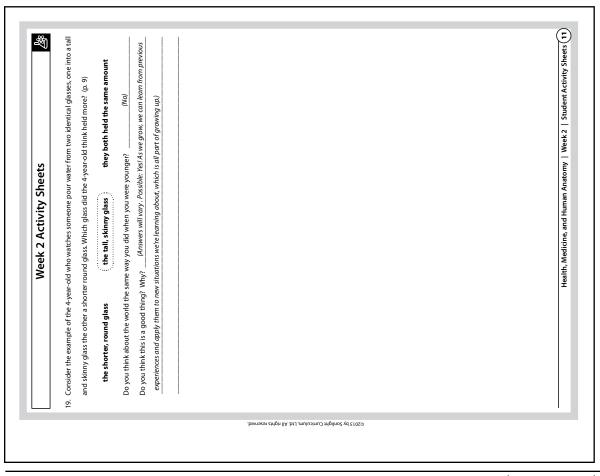
Day 5

5-Day: *Understanding Your Brain* | pp. 6–9

5-Day: Activity Sheet Questions | #15–19 ■







Week 2 Activity Sheets



he l	Jsborne Co	mplete Boo	k of the Humai	n Body				
. V	Which part o	f your digest	ive system extr	acts useful fo	od chemicals ar	nd passes the	m to you	r blood stream? (p. 66)
	pancreas	;	stom	ach		liver		small intestine
		es your bod	ur large intestir /? (pp. 65–66)				2	
. (- -	Can you swa		wn? Why? (p. 6					
. V	Why does yo	ur stomach l	nave <i>rugae</i> , or w	rinkles, on th	e inside of it?(p. 68)		
. V	What causes	your stomac	h to make ruml	bling and gur	gling noises? C	heck all that a	apply. (p.	69)
	food	l falling into	your stomach					~
	your	small intest	ine bumping in	to your stoma	ach		Jun	un.
		l and air slos oyloric sphin	ning around ins cter	ide or being	squirted throug	ıh		
	gase	es trapped in	your stomach				\rightarrow \frac{1}{2}	7
. 1	rue or False	? The bolus	of food you sw	allow eventua	ally passes as lit	tle balls into	your sma	ll intestine. (p. 69)
	True		Fal	se				
E	xplain:							



Week 2 Activity Sheets

Blood and Guts

7. Draw a line to match the terms to the correct definitions. (p. 76)

action of the intestine walls hugging and pushing peristalsis

food along like the way you squeeze a tube of toothpaste

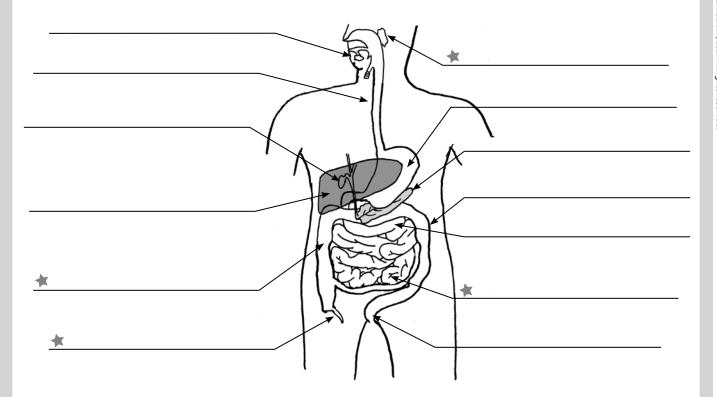
enzyme

tiny finger-like things that stick out from the wall of the intestine to absorb valuable chemicals from the food that passes by

villi

- a chemical in saliva that breaks down starches in food
- 8. Part A: Label only the items listed in the box on the picture of the digestive system below. They should be familiar to you. Answer lines with stars * should be left blank for now. (p. 77)

esophagus liver small intestine stomach pancreas gall bladder rectum (anus) large intestine tongue



Week 2 Activity Sheets



salivary glar	nd:				
appendix: _					
ileum:					
the words in th	e box to comp	olete the followi	ng. (pp. 79–81)		
	fats	proteins	feces	carbohydrates	sphincter
			_ are "fuel foods" because	they provide energ	ny for your body and
found in foods	such as bread	, pasta and cere	al.		
			al. _ are used for energy prod	duction and found	BUTTER
				duction and found	BUTTER
in foods such a	s butter or cre	eam.	_ are used for energy proc		BUTTER.
in foods such a	s butter or cre	eam.			BUTTER
in foods such a	s butter or cre	eam. and eggs.	_ are used for energy proc	and growth and	te.
in foods such a	s butter or cre	eam. and eggs.	_ are used for energy prod _ are used in body repair a	and growth and he body's solid was	
in foods such a	s butter or cre such as steak scle that surro	and eggs.	_ are used for energy prod _ are used in body repair a _ is the proper name for th	and growth and he body's solid was	

16.	How does a message get from one neuron to the next?	
		> ₩.

17. If an object goes out of sight, what does a young baby think happened to it? (p. 9)



- 18. How does your brain grow? (p. 9)
 - it creates new cells all the time
 - it increases the number of connections between neurons
 - it adds more and more neurons as you age
 - it grows from the inside out

Week 2 Activity Sheets



19. Consider the example of the 4-year-old who watches someone pour water from two identical glasses, one into a tall and skinny glass the other a shorter round glass. Which glass did the 4-year-old think held more? (p. 9)

the shorter, round glass	the tall, skinny glass	they both held the same amount
Do you think about the world the sai	me way you did when you were	younger?
Do you think this is a good thing? W	hy?	

SCIENCE F WEEK 3 SCHEDULE 14 Day 5 Date: Day 1 11 Day 2 12 Day 3 13 Day 4 The Usborne Complete pp. 70-71 pp. 72-73 **Book of the Human Body Activity Sheet Questions** #1-4 #5-8 **Blood and Guts** pp. 83-86 **Activity Sheet Questions** #9-10 **Food and Nutrition for** chap. 11 **Every Kid Activity Sheet Questions** #11-13 5-Day: pp. 10-13 **Understanding Your Brain** 5-Day: #14-19 **Activity Sheet Questions** 5-Day: The Human Body pp. 34, 38, 40 pp. 41-42 **Activity Book Optional: Do Together** Fighting Fat Peristalsis **Optional:** chap. 8 Lyrical Life Science, Vol. 3—The Human Body

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Activity Sheet Questions | #1-4

5-Day: The Human Body Activity Book | pp. 34, 38, 40

Optional: Lyrical Life Science, Volume 3—The Human **Body** | Chapter 8 (all week)

Day 2

The Usborne Complete Book of the Human Body pp. 72-73

Activity Sheet Questions | #5-8

5-Day: The Human Body Activity Book | pp. 41–42

Optional: Do Together | Fighting Fat

Reinforce what your children have learned thus far about how your body processes food and stores excess food as fat. Use this time to discuss how important it is to monitor our food intake closely so that we do not end up with an unhealthy amount of excess food that will be stored as fat. Discuss with your children what other steps can be taken to reduce the amount of unhealthy fat in our bodies.

In addition to monitoring our food intake, we can regulate the amount of energy our bodies use by engaging in regular exercise. Ask your children to pick an exercise they enjoy and do that exercise with them today. If you can, incorporate a time of daily exercise into your children's normal routine.

Day 3

Blood and Guts | pp. 83-86

Note that kidneys are referred to as "some of the most complicated pieces of equipment you have." Complexity does not in itself indicate design, but it certainly is suggestive of it. [p. 83]

Activity Sheet Questions | #9-10

Day 4

Food and Nutrition for Every Kid | Chapter 11

This book provides 25 hands-on activities to help your children learn more about food. Feel free to do your experiment any time during the week, depending on what works best for your schedule.

Some weeks the workload is heavier than others, so if you are falling behind, feel free to skip an activity. The goal of these activities is to help your children really learn about nutrition through active learning.

Most of the activities require a little preparation, so make sure you review the procedures before the date you plan to do it. We believe this book is a valuable resource, but we don't want these extra activities to wear you out.

Be assured that this is a book you can choose to use when you want to, and put aside when you get too busy.

Also note that pages 199 through 220 consists of a helpful glossary in case you and your children need to look up some terms.

Activity Sheet Questions | #11–13

Optional: Do Together | Peristalsis

Peristalsis describes a series of muscular contractions that moves food through your digestive system. To help your children understand peristalsis better, do a simple experiment with them today.

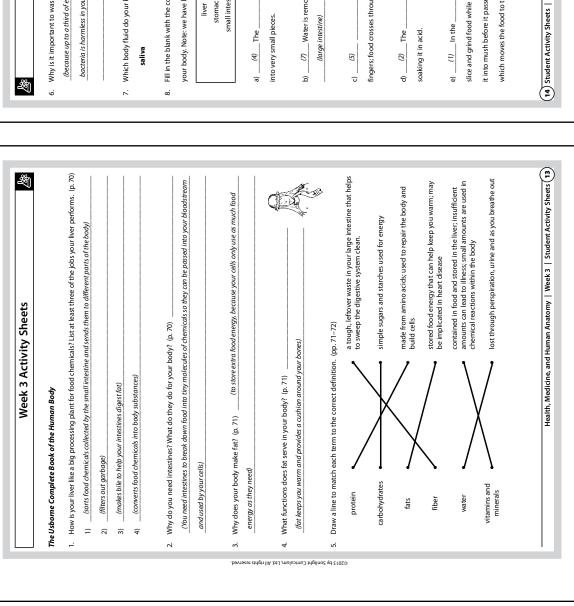
Grab a short section of tubing or garden hose, along with a marble or other round object only slightly smaller than the tubing/hose. Ask your children to push the marble into the hose and then move it to the other end. Note: Make sure the marble will not simply roll easily through the tube.

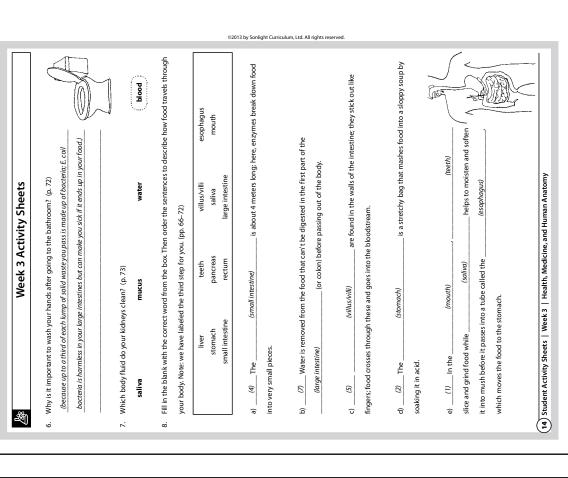
How did your children move the marble through the hose? If they imitated peristalsis, then they probably pushed the marble through slowly, one squeeze of the tube at a time. Explain to them that this is how their body's digestive system, including the esophagus, intestines, etc., moves food through the various stages of the digestive process ... one small muscle contraction at a time.

Day 5

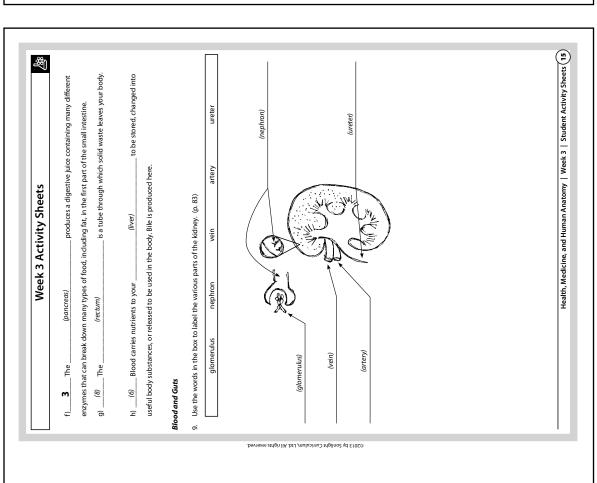
5-Day: *Understanding Your Brain* | pp. 10–13

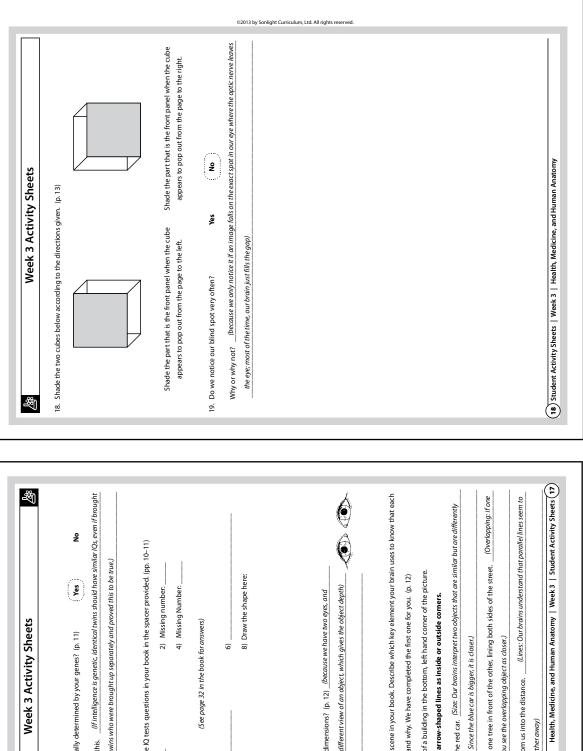
5-Day: Activity Sheet Questions | #14–19 ■





	Week 3 Activity Sheets
ll in each blank with the le	10. Fill in each blank with the letter of the correct definition. (pp. 83–85)
(d) bladder (c)	a. microscopic filtering unit of the kidney, it sorts the useful and good materials from the useless and bad materials in our blood
(f) Lidae	b. band of muscle that holds the bladder shut
1	c. tight knot of capillaries in the nephron
(b) sphirter	d. muscular bag that holds urine
1	e. tubes that connect the kidneys to the bladder
1	f. filters unwanted substances out of the blood
Food and Nutrition for Every Kid	KIA
11. Define. (pp. 79–80, 86)	
mechanical digestion:	(physical breaking apart of food into smaller pieces)
chemical digestion:	(breaking apart long chains of food molecules into usable parts)
alimentary canal: (t	(the tube food moves through in the digestive system)
bolus: (the ball of food that	(the ball of food that moves through the system)
emulsifier: (substance	(substance that prevents emolsion)
hat does your small intes	12. What does your small intestine use to break down fat? (p. 82) (Your small intestine uses bile created in the liver to
break down fat.)	
hat part does your pancre	13. What part does your panceas play in digestion? (p. 82) (The panceas creates juices that are able to digest
emaining large molecules	remaining large molecules of carbohydrates, fats and proteins left behind by other digestive juices)
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	





Week 3 Activity Sheets



The Usborne Complete Book of the Human Body

1.	How is your liver lik	e a big processing plant for food	chemic	als? List at least three of the jobs your live	r performs. (p. 70)
	1)				
	2)				
	3)				
	4)				
2.	Why do you need i	ntestines? What do they do for y	our bo	dy? (p. 70)	
3.	Why does your boo	dy make fat? (p. 71)			
4.	What functions do				
5.	Draw a line to mate	ch each term to the correct defin	ition. (pp. 71–72)	
	protein	•	•	a tough, leftover waste in your large int to sweep the digestive system clean.	estine that helps
	carbohydrates	•	•	simple sugars and starches used for end	ergy
	fats	•	•	made from amino acids; used to repair build cells	the body and
				stored food energy that can help keep	vou warm: may

- fiber
- water
- vitamins and minerals

- stored food energy that can help keep you warm; may be implicated in heart disease
- contained in food and stored in the liver; insufficient amounts can lead to illness; small amounts are used in chemical reactions within the body
- lost through perspiration, urine and as you breathe out



Week 3 Activity Sheets

Which b	oody fluid do your kidneys cl	ean? (p. 73)			
sa	liva	mucus	water	blood	
Fill in th	ne blank with the correct wor	d from the box. Then	order the sentences to d	lescribe how food travels	throu
your bo	dy. Note: we have labeled th	e third step for you. (pp. 66–72)		
	liver	teeth	villus/villi	esophagus	
	stomach	pancreas	saliva	mouth	
	small intestine	rectum	large intestine		
into ver	The y small pieces.			ŕ	n fooc
into ver		the food that can't b		t of the	n food
into ver	y small pieces.	the food that can't b (or colon) before	e digested in the first par passing out of the body.	t of the	
b)	ry small pieces Water is removed from	the food that can't b (or colon) before are	e digested in the first par passing out of the body. found in the walls of the	t of the	
b) c) fingers;	y small pieces Water is removed from	the food that can't b (or colon) before are and goes into the blo	e digested in the first par passing out of the body. found in the walls of the	t of the intestine; they stick out I	ike
b) c) fingers;	y small pieces. Water is removed from food crosses through these	the food that can't b (or colon) before are and goes into the blo	e digested in the first par passing out of the body. found in the walls of the	t of the intestine; they stick out I	ike
b) c) fingers;	y small pieces. Water is removed from food crosses through these a	the food that can't b (or colon) before are and goes into the blo	e digested in the first par passing out of the body. found in the walls of the	t of the intestine; they stick out I	ike
b) c) fingers; d) soaking	y small pieces. Water is removed from food crosses through these a	the food that can't b (or colon) before are and goes into the blo	e digested in the first par passing out of the body. found in the walls of the bodstream.	intestine; they stick out I	ike
b) c) fingers; d) soaking	y small pieces. Water is removed from food crosses through these a The	the food that can't b (or colon) before are and goes into the blo	e digested in the first par passing out of the body. found in the walls of the bodstream.	intestine; they stick out I	ike
b) c) fingers; d) soaking e) slice and	y small pieces. Water is removed from food crosses through these a The it in acid. In the	the food that can't b (or colon) before are and goes into the blo	e digested in the first par passing out of the body. found in the walls of the bodstream. is a stretchy bag that ma	intestine; they stick out I	ike

Week 3 Activity Sheets

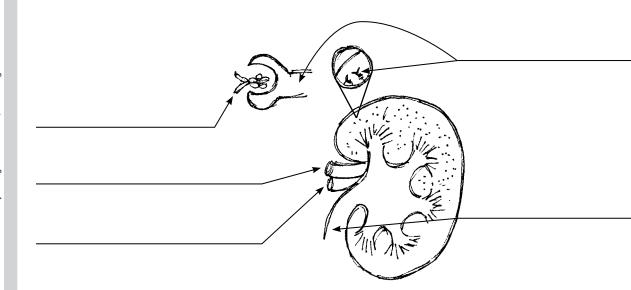


f) _____ The ______ produces a digestive juice containing many different enzymes that can break down many types of food, including fat, in the first part of the small intestine. g) ______ The _____ is a tube through which solid waste leaves your body. h) ______ Blood carries nutrients to your _____ to be stored, changed into useful body substances, or released to be used in the body. Bile is produced here.

Blood and Guts

9. Use the words in the box to label the various parts of the kidney. (p. 83)

nephron glomerulus vein artery ureter



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Week 3 Activity Sheets

10.	Fill in each blank with the letter of the correct of	defin	ition. (pp. 83–85)			
	bladder glomerulus	a. b.	microscopic filtering unit of the kidney; it sorts the useful and good materials from the useless and bad materials in our blood band of muscle that holds the bladder shut			
	kidney nephron sphincter ureter	c. d. e. f.	tight knot of capillaries in the nephron muscular bag that holds urine tubes that connect the kidneys to the bladder filters unwanted substances out of the blood			
	od and Nutrition for Every Kid					
11.						
	chemical digestion:					
	emulsifier:					
12.	. What does your small intestine use to break down fat? (p. 82)					
13.	What part does your pancreas play in digestion	n? (p	. 82)			

Week 3 Activity Sheets

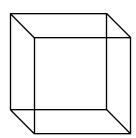


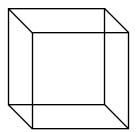
5-Day: Understanding Your Brain

14.	Is your intelligence at least partially determined by your g	jenes? (p.	11)	Yes	No	
	Describe how scientists proved this.					
15.	For fun: Try to answer the sample IQ tests questions in you	ur book in	the spacer p	provided. (pp	. 10–11)	
	1) Number of triangles:	2)	Missing nu	mber:	_	
	3) Draw the shape here:	4)	Missing Nu	mber:	_	
	5)	6)				
	7) Draw the shape here:	8)	Draw the sh	ape here:		
	9) Number of boots:					
16.	Why can we see things in three dimensions? (p. 12)					
						×
17	Look at the wintum of the atmost areas in your book. Door	مام نامان مانس	lav alaman	*		اء ۔
17.	Look at the picture of the street scene in your book. Description of the balance statement is true and who We have a small		•		uses to know that ea	зcг
	of the below statements is true and why. We have complete a. There is the outside corner of a building in the bottom		•			

- Arrows: Our brains interpret arrow-shaped lines as inside or outside corners.
 - b. The blue car is closer than the red car.
 - c. There are two rows of trees, one tree in front of the other, lining both sides of the street.
 - d. The street stretches away from us into the distance.

18. Shade the two cubes below according to the directions given. (p. 13)





Shade the part that is the front panel when the cube appears to pop out from the page to the left.

Shade the part that is the front panel when the cube appears to pop out from the page to the right.

19. Do we notice our blind spot very often?

Yes

No

Why or why not?

Appendix 2: Science F—Weekly Subject List

5-Day

Week	Subje	ct
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1	body/body systems/cells/brain parts/hemispheres
2	digestive system/neurons/nervous system/brain development
3	digestion/intestines/waste/kidneys/intelligence/eyesight
4	respiratory system/memory
5	heart/circulatory system/homeostasis/consciousness
6	skeletal system/mental illness/drugs/hypnosis
7	muscular system/animal brains/computer brains
8	muscular system/involuntary muscles/reflexes/hair and nails/brain (history)
9	skin/genes/DNA
10	brain/genes/DNA/cells/nervous system/intelligence
11	eyes/genes/DNA/cells/chromosomes
12	hearing/balance/chromosomes
13	balance/sensation/micronutrients and macronutrients/genetic code
14	taste/smell/teeth/nose/carbohydrates/baby development/vocal cords/airways
15	brain/thinking/health/sickness/fats/genes/proteins
16	diseases/immune system/protein/heart/passing on genes/genetic traits
17	$drugs/treatments/operations/alternative\ medicine/vitamins/minerals/nutrients/genetic\ mutations/evolution$
18	conception/reproduction/birth/puberty/adolescence/genetics/Darwin/Mendel
19	boy's book or girl's book genes/DNA/growing up/puberty/reproduction/microscopes
20	boy's book or girl's book/fruits and vegetables/gene science/genome/bioethics
21	boy's book or girl's book/hormones/food pyramid/human genome
22	aging/facts and figures/food labels/body weight/calories/human genome
23	survival skills/taste/genetic engineering/genetically modified foods
24	survival skills/ice and food/genetic medicine/genetic diagnosis
25	survival skills/food sweeteners/cloning
26	survival skills/sodium in the body/genetics of aging
27	survival skills/food dyes/DNA testing
28	survival skills/acids and bases/bioethics
29	survival skills/leavening/eugenics
30	history of medicine/enzymes/commercial genetics
31	history of medicine/gluten/genetic engineering/future of genetics
32	history of medicine/chemistry/geology/fossils
33	history of medicine/milk/geology/fossils
34	history of medicine/dairy products/geology/fossils
35	history of medicine/spoilage/geology/fossils/age of fossils
36	history of medicine/food preservation/geology/fossils

Appendix 2: Science F—Weekly Subject List

4-Day

Week Subject

- 1 body/body systems/cells
- 2 digestive system
- 3 digestion/intestines/waste/kidneys
- 4 respiratory system
- 5 heart/circulatory system
- 6 skeletal system
- 7 muscular system
- 8 muscular system/involuntary muscles/reflexes/hair and nails
- 9 skin
- 10 brain/nervous system/intelligence
- 11 eyes
- 12 hearing/balance
- 13 balance/sensation/micronutrients and macronutrients
- 14 taste/smell/teeth/nose/carbohydrates
- 15 brain/thinking/health/sickness/fats
- 16 diseases/immune system/protein/heart
- 17 drugs/treatments/operations/alternative medicine/vitamins/minerals/nutrients
- 18 conception/reproduction/birth/puberty/adolescence
- 19 boy's book or girl's book genes/DNA/growing up/puberty/reproduction
- 20 boy's book or girl's book/fruits and vegetables
- 21 boy's book or girl's book/hormones/food pyramid
- 22 aging/facts and figures/food labels/body weight/calories
- 23 survival skills/taste
- 24 survival skills/ice and food
- 25 survival skills/food sweeteners
- 26 survival skills/sodium in the body
- 27 survival skills/food dyes
- 28 survival skills/acids and bases
- 29 survival skills/leavening
- 30 history of medicine/enzymes
- 31 history of medicine/gluten
- 32 history of medicine/chemistry
- 33 history of medicine/milk
- 34 history of medicine/dairy products
- 35 history of medicine/spoilage
- 36 history of medicine/food preservation