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CHAPTER SUMMARIES BOOK 1

Chapter 1: Be a Scientist

hypothesis	something that can change
variables	a statement that can be tested
communicate	share information
classify	put things in groups

1. What do scientists do?

- Scientists use many skills
- scientist make models
- scientists observe
- Scientists compare things-how do they look the same and different
- scientists classify things-put them into groups
- scientists measure
- scientists record data-write down what they observe
- Scientists INFER- use what you know to figure something out

Chapter 1: Be a Scientist

hypothesis	something that can change
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2. What do scientists do?

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CHAPTER 2: A Look at Living Things

organism	living things
respond	how living things react
reproduce	make more of one's own kind
environment	all living and nonliving things that surround an organism
Cells	building blocks of life
Microscope	makes tiny things look larger

What are living things?

- living things:
- REPRODUCE,
- REMOVE WASTE,
- RESPOND
- TAKE IN NUTRIENTS
- NONLIVING THINGS do not do any of this

What do living things need?

- food to get energy to live and grow
- water
- Animals need oxygen
- Plants need carbon dioxide
- Space- living things need space to grow

What are living things made of?

- Living things are made of CELLS
- Cells are the building blocks of life

CHAPTER 2: A Look at Living Things

Lesson 2: Plants and Their Parts

Structures	Parts
roots	structures that take in water and nutrients. Hold a plant in place
stem	holds up a plant
leaf	structure where plants make food
Photosynthesis	The process in which plants make food STUDY THE DIAGRAM ON PAGE 40
Chlorophyll	a substance inside a plant this makes leaves green

1. How are plants alike?

- All plants can make their own food _PHOTOSYNTHESIS
- most plants have the basic structure-roots, stem and leaves

2. What are plants?

- Plants are organisms that can make their own food

3. How do roots and stems help plants?

- Roots take in water and nutrients
- Stems hold a plant up

4. Why are leaves important?

- leaves are where a plant makes food
- Plants make food in a process called PHOTOSYNTHEIS
- PHOTOSYNTHESIS
 - sunlight goes into the leaves
 - carbon dioxide goes into the holes on leaves
 - Food made inside the leaves goes through the plant
 - Roots take in water and nutrients
 - oxygen flows out of the plant

5. How can you classify plants?

- plants are grouped by structures

CHAPTER 2: A Look at Living Things

Lesson 3: Animals and Their Parts

lungs	structures that take in oxygen from the air
Gills	take in oxygen from water
shelter	safe place for animals

What are animals?

- animals are living things
- animals have certain traits in common
- most animals can move- fly, run, jump, swim

How do animals get what they need?

- animals have structures that help them get what they need
- Some animals have long tongues for lapping water
- birds scoop up water in their beaks
- Elephants pick up water in their trunks
- These same structures help animals get food
- Some animals have gills or lungs for breathing oxygen
- Some animals breathe through their skin- Worms and Salamanders

How do animals stay safe?

- They stay in the ground
- Groundhogs dig holes
- Lizards flatten their bodies and crawl under rocks
- some animals live in trees
- Some animals have structures that protect their bodies- Porcupines have hard sharp quills

CHAPTER 2: A Look at Living Things

Lesson 4: Classifying Animals

vertebrate	
invertebrate	
exoskeleton	
birds	
reptiles	
amphibians	
fish	
Mammals	

1. How can you classify animals?

- animals can be classified as VETERBRATES- animals that have a backbone
- INVERTERBRATES- animals with no backbones
- Tigers, dogs gold fish are VETERBRATES
- insects' spiders' worms and jelly fish are INVERTRBATES

2. What are some invertebrates?

- sponges
- worms
- sea stars
- urchins
- jellies
- Arthropods- insects' spiders and lobsters
- **Mollusks:**
- soft bodies
- some have hard shells
- clams, snails and octopuses

Invertebrates have no bones but they have an **EXOSKELETON- hard outer covering**

3. What are some vertebrates?

- birds
- reptiles-crocodiles, turtles, snakes
- Amphibians- frogs, toads and salamanders
- fish -they breathe through gills

4. What are mammals?

- mammals are vertebrates with hair or fur
- they are born alive
- they look after their young
- breathe with lungs

