Science and Technology Grade 10

Personal Study Guide

Na	me:	
	Part 1: Chemistry	due APRIL 14
	Part 2: Electricity / Magnetism	due APRIL 23
	Part 3: Technology	due APRIL 30
	Part 4: Environment	due MAY 12

Part 1: Chemistry

due APRIL 14

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Atoms and atomic models

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PAGES 6-15

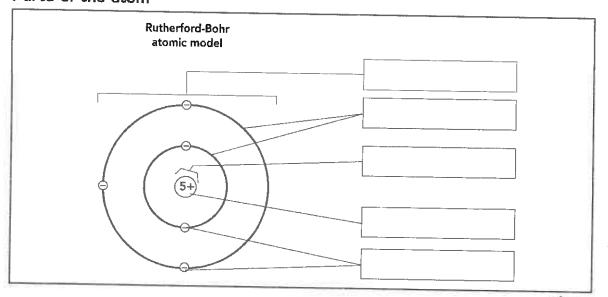
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Definitions

Rutherford's observations and consequent conclusions

Observation	Conclusion

Parts of the atom



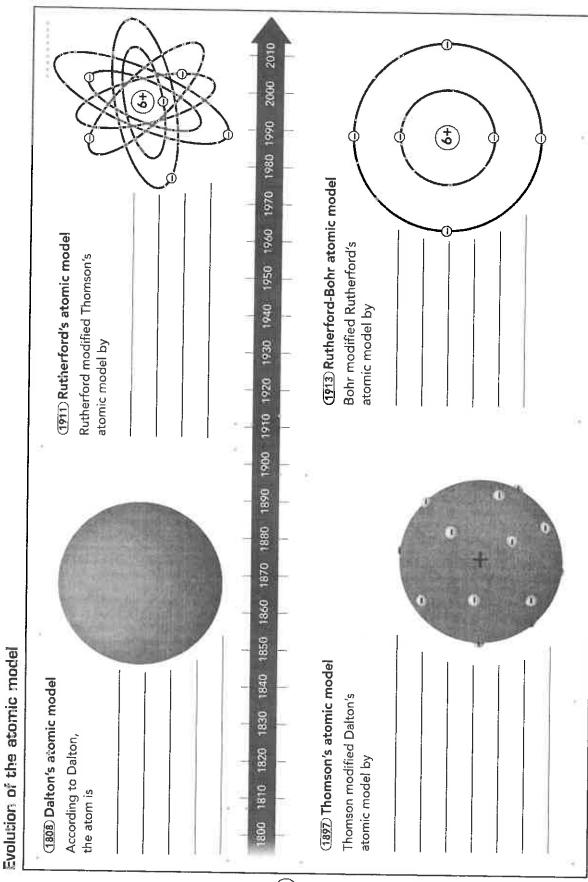
Observatory / Guide 11129-B 1 Concept reviews

CONCEPT REVIEW 1
Atoms and atomic models

Group: _

Date:

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The periodic table

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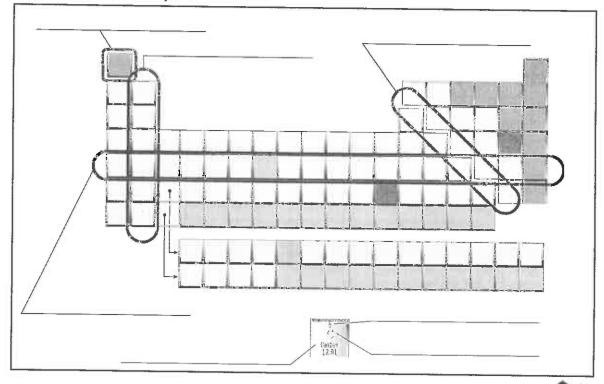
A PAGES 17-23

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

A periodic classification is		
The periodic table of the element	nents is	
A valence electron is		
A group corresponds		
- A period corresponds		

Organization of the periodic table





Name: _			Group:	Date:
ST REVIEW	Representing at	toms		ST PAGES 26–29
3				Complete this Concept Review so you can keep a record of what

	a record of wha you have learned
Representation in which the atom is depicted as a ball, and its bonds with other atoms are shown with sticks. The size of the ball is generally proportional to the number of electron shells in the atom.	Nitrogen
Representation of the atom showing the number of protons, electrons and electron shells.	Nitrogen
	Nitrogen

Atomic number

Period Group

Information obtained from the periodic table

How it corresponds to the Rutherford-Bohr atomic model

How the periodic table and the Rutherford-Bohr atomic model are linked

Name: _				 Group: _
REVIEW	Molecules	and	ions	

Da	te:
	ST
	PAGES 40-44
	Complete this Concept Review so you can keep

you have learned.

Definitions

• A molecule is		****	

Some characteristics of ions

	Negative ion	Positive ion
Loss or gain of electrons		
Number of electrons to protons		
Charge		

Tendency to gain or lose electrons for group A elements, and examples of possible ions

Group	IA	II A	III A	IV A	VA	VIA	VII A	VIII A
Number of valence electrons								
Tendency		Lose 2 e ⁻						
Example of possible ion			В ³⁺					





Solubility and concentration

ST

PAGES 50-53

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

A solution is	
An aqueous solution is	
Solubility is	
The concentration of a solution is	
The concentration in PPM ("parts per million") is	

Effects of various changes on the concentration of a solution

	and the second of the second o
Change	Effect on the concentration
Dilution (addition of solvent)	
Dissolution (addition of solute)	
Evaporation (reduction of solvent))	

Mathematical formulas and units of measurement

Formula fo	r calculating con	centration in	g/L:	
	where			
		<u>. </u>		
Equivalence	es for 1 ppm:			
1 ppm =	<u> </u>	mg	mg	
	9		kg	
In aqueous	solutions:			
1 ppm ≈	~ ~			



Electrical conductivity and pH

ST

[] PAGES 55-61

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

An electrolyte is	
The electrical conductivity of a solution is	
Electrolytic dissociation is	

Characteristics of the types of electrolytes

Type of electrolyte	Acid	Base	Salt
Definition			
Chemical			
Reaction to litmus paper			
Examples			



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Name:	Group:	Date:	
pH scale			
If the pH < 7, the solution is			
If the pH = 7, the solution is			
If the pH > 7, the solution is	_		

pH of some common substances

H	Acidity or basicity in comparison to a pH of 7	Examples of substances
	10 000 000 times more acidic	
	1 000 000 times more acidic	Gastric juices
	100 000 times more acidic	
	10 000 times more acidic	
	1 000 times more acidic	
	100 times more acidic	Rainwater
	10 times more acidic	Milk
	Neutral	
	10 times more basic	
	100 times more basic	
	1 000 times more basic	
	10 000 times more basic	
	100 000 times more basic	Lime
	1 000 000 times more basic	Oven cleaner
	10 000 000 times more basic	



Balancing chemical equations

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PAGES 108-112

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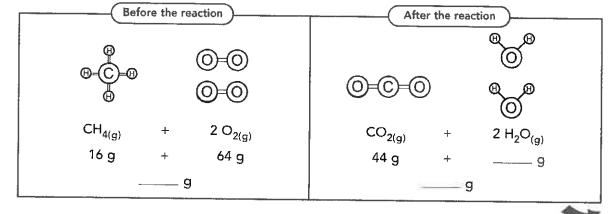
Definitions

A physical change alters A chemical change alters Balancing a chemical equation consists

Signs pointing to the occurrence of a chemical change

_			 	 	 	
*		***	 	 		
•			 			
(0)					<u> </u>	
*						
•						

Example of conservation of mass



lame:			Group:		Date:			
xample of	interpreting	a chen	nical equa	ation				
Chemical equation	CH _{4(g)}	+	2 O _{2(g)}	-	CO _{2(g)}	+	2 H ₂ O _{(g}	
Interpretation							4	
otal numbe	er of atoms o		plement h				***************************************	
nd after th	ne reaction			GIUFG				
	ore the chemical re				After the chen	nical react	tion	
Reactants	Number	of atoms		Product	Nur	Number of atoms		
N ₂ + 3 H ₂				2 NH ₃				
	ply when hal	encina	chemical	equation				
ules to ap				- quadion		<u> </u>		
ules to ap	<u>:</u>		_					
es:			-	-				
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Chemical changes

ST PAGES 117-124

Complete this Concept Review so you can keep a record of what you have learned.

Chemical change

Characteria	
Chemical change	Description or definition
	Generic formula:
	100
	Generic formula:
	Conoria formula
	Generic formula:

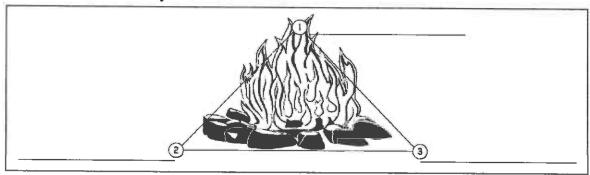


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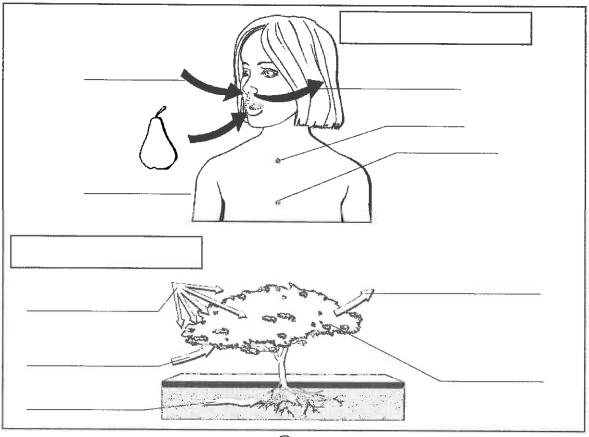
Types of combustion and characteristics

Type of combustion	Characteristic
Rapid combustion	Releases a great deal of energy within a short period of time.

Conditions necessary for combustion



Cellular respiration and photosynthesis



Part 2: Electricity / Magnetism

due APRIL 23



Electricity and electrical charges

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PAGES 140-143

Complete this Concept Review so you can keep a record of what you have learned.

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Electricity describes	
Electrical charge is	
The coulomb is	
Symbol:	

Electrical forces of attraction and repulsion

Electrical charges of like signs
Electrical charges of opposite signs
The law of conservation of charge states

Conductors and insulators

Category of object	Definition	Examples
Conductor _		
Semiconductor _		
_		



Static electricity

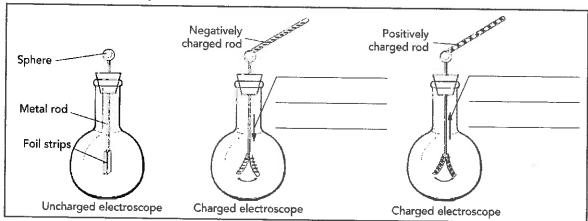
ST PAGES 145-148

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Definitions

Static electricity describes

How an electroscope works



Three methods of charging an object

Method	Before	During	After
<u> </u>			
-		HVL.	
	- to-		-
		- Address	



Electric current and electrical power

ST PAGES 150-156

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Definitions

Dynamic electricity describes	
Ohm's law states	
Electrical power is	
	Symbol:

Characteristics and forms of electric current

Characteristic (symbol)	Definition	Unit of measurement (symbol)	Equation
Current intensity (I)		-	$1A = \frac{1C}{1s}$
-		-	
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1			
-			
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Magnetism and electromagnetism

PAGES 163-168 Complete this Concept Review so you can keep a record of what you have learned.

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Definitions

A magnet is	
Magnetism describes	
The north pole of a magnet is	
A magnetic field is	
Electromagnetism describes	

Magnetic forces of attraction and repulsion

* Like magnetic poles ___

Magnetic fields

Magnetic field of a bar magnet	Magne of two ba	tic field r magnets	Magnetic field of a live wire
	5	[N	
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Electricity, electronics and electrical circuits

	165	A11	
\Box	PAGES	458-	462

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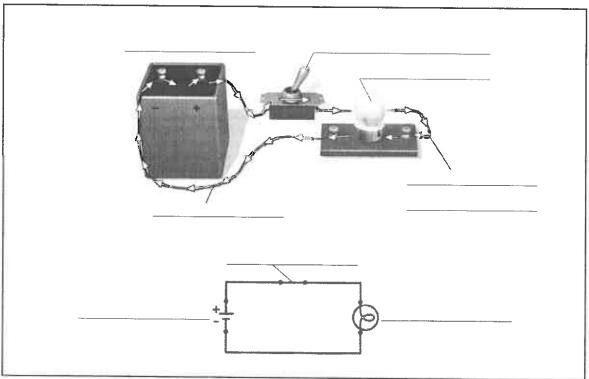
Definitions

Direct current is	
Alternating current is	

Differences between electricity and electronics

Characteristic	Electricity	Electronics
Materials used		
Power of the current		
Size of circuits		

Components of an electrical circuit



Name:	 	

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Date:



Power supply, conduction, insulation and protection

ST

PAGES 462-467

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Definitions

Conduction is	
Insulation is	
Protection is	

How two protective devices work

Fuse	Breaker

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Source Source Battery Electrical outlet	Description	Advantages	Disadvantages
Photovoltaic cell			

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Concept reviews

CONCEPT REVIEW 61
Power supply, conduction, insulation and protection



Control and transformation of energy

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L PAGES 469-472

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Definitions

A closed circuit is	
An open circuit is	
Control is	
The transformation of energy is	

Electrical components that are used to transform energy

Component	Description	Form of energy obtained
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Energy and energy efficiency

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Symbol:

Some forms of energy, with possible sources

Form of energy	Description	Examples of sources
Radiation		
Chemical energy		
Wind energy		



Thermal energy

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PAGES 73–74
Complete this Concept
Review so you can keep
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you have learned.

Definitions

Thermal energy is	
Heat is	
• Temperature is	

Factors affecting the thermal energy of a substance

Factor	Factor variation	Result

Mathematical formulas and units of measurement

Formula for in	ndicating the relationship between heat and thermal energy:
	where

Part 3: Technology

due APRIL 30



Linking in technical objects

ST PAGES 426-428

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Definitions

Mechanical engineering is	
A link	
In mechanics, a component is	
Linking is	· · · · · · · · · · · · · · · · · · ·

Characteristics of links

Characteristics	Description
Direct	Two parts hold together without a linking component.
Indirect	Parts require a linking component to hold them together.
-	

Concept reviews



Guiding controls

ST
PAGES 431-432
Complete this Concept Review so you can keep a record of what you have learned.

Definitions

Guiding is	
A guiding component or control is	

Type of guiding	Description
	Description
-	
-	<u> </u>

Name:	_
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<u> </u>	
Grou	ID:

Date:



Motion transmission systems

ST

PAGES 435-441

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

Motion transmission is	
A motion transmission system is	

Types of components in a mechanical system

Type of component	Description
Driver component	

Characteristics of motion in motion transmission systems

Motion transmission system	Symbol	Direction of rotation of components	Reversibility
	C 11177111		





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(2) Concept reviews

STREVIEW 58

Speed changes in motion transmission systems

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PAGES 442-444

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A speed change occurs in	ccurs in a motion transmission system when	
Speed changes in worm	worm and worm gear	
On a gear, the greate	On a gear, the greater the number of teeth,	
Speed changes in other	ther motion transmission systems	
Speed change	Friction gear systems Belt and pulley systems	Gear trains Chain and sprocket systems
	Motion is transmitted	Motion is transmitted
	Motion is transmitted	Motion is transmitted
	Motion is transmitted	Motion is transmitted
		ou nave
Calculation of speed ratio transmission system	d ratio in a motion n	learned.

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Definition



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Motion transformation systems

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Definition

 Motion trans 	mation is	

Characteristics of motion in the most common motion transformation systems

System	Symbol	Possible transformations	Reversibility
Rack and pinion system	(C)H		
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	+0		
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tion transformation systems Elements to consider													
Elements to consider when building motion transformation systems	Screw gear system, type	Screw gear system, type II											

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CONCEPT REVIEW 59
Motion transformation systems

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2 REVIEW		S



Constraints and material deformations

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PAGES 386-387

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A constraint describes	

Main types of constraints materials are subjected to

Type of constraint	Description	Symbol
Compression		
		T T T

Types of material deformation

Type of deformation	Description
	- Aller - Alle



Name:	 	Group:	Date:
A REVIEW			



Properties and material degradation and protection

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The mechanical properties of a material describe	
The degradation of a material is	
The protection of a material is	

Mechanical properties of materials

Mechanical property	Definition
	Ability to resist indentation or abrasion

Other properties of materials

Property	Property Description	



Wood, modified wood, ceramics, metals and alloys

ST

PAGES 390-395

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

- Wood is	Ut annu e
An alloy is	

Wood and modified wood

Properties	
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Degradation and protection	
Examples of causes of degradation:	
Examples of means of protection:	



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Date: _



Plastics and composites

ST

PAGES 396-401

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

• A plastic is		
A thermoplastic is		
• A thermosetting plastic is		
A composite is		

Degradation and protection of plastics

Cause of degradation	Description	Example of protection
		ļ

	- Harrison	

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Matrix or reinforcement	Properties sought
Plastic matrix	Durability
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egradation and pr	rotection of composites
-	omposites usually takes one of two forms:
ine degradation of co	imposites usually takes one of two forms:
/	
To protect materials, it	t is important to:
o protect materials, n	t is important to:

Group: _____ Date: __



Name: __



Part 4: Environment

due MAY 12

Formula:





Population density and biological cycles

ST

PAGES 297-302

Complete this Concept Review so you can keep a record of what you have learned.

DENSITY AND DISTRIBUTION Definitions

Population density refers		
Mathematical formula:		
Population distribution is		

Patterns of distribution

Pattern of distribution	Description	Example
		-
-		
-		
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Name: _		 Group:	Date:
REVIEW			



Communities and biodiversity

PAGES 303–309

Complete this Concept Review so you can keep a record of what you have learned.

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A community is	
Biodiversity describes	

Main components of biodiversity

Component	Description
Species richness of a community	

Main types of interaction between individuals of a community

Interaction	Description
Competition	



Ecosystems and trophic relationships

ST PAGES 318–322

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

 An ecosystem is 	- V	i.ven	
 Trophic relationships are 			
Producers are			
Consumers are			
Decomposers are			
*	***		

Categories of matter

Category	Description	Examples
_	A second	
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Ecosystem dynamics and disturbances

ST

PAGES 323-329

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Definitions

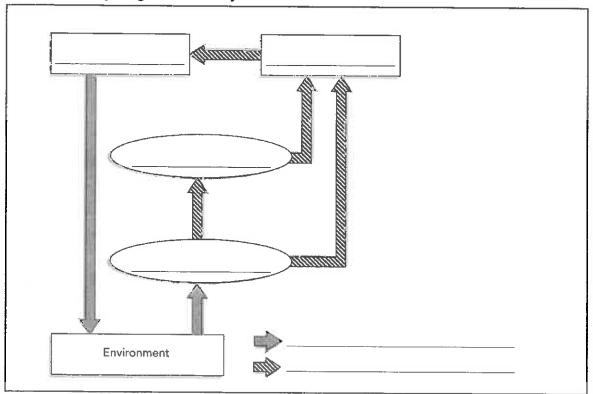
<u>.</u>	The material and energy flow is
-	Chemical recycling is
	The biomass is
- T	The primary productivity of an ecosystem is
- A	A disturbance is
* E	Ecological succession is

Factors influencing primary productivity in an ecosystem

. The ar	mount of light				
***		 	·		
				<u></u>	
		 			
			<u> </u>		



Chemical recycling in an ecosystem



Types of disturbances

Туре	Definition	Examples
		Life
_		_
		-
	The state of the s	_

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-		



The lithosphere: minerals and rocks

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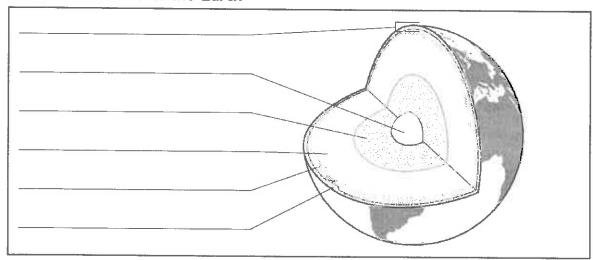
PAGES 184-191

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Definitions

The lithosphere is		
Minerals are		
Rocks are		

Internal structure of the Earth



Some of the main minerals mined in Québec

Mineral	Possible uses
Gold	Jewellery, electronic equipment, trade

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Distinctive features of minerals

Inorganic substances

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Name:	Group:	Date:
REVIEW	42	

REVIEW 25

The lithosphere: soil

PAGES 192-195

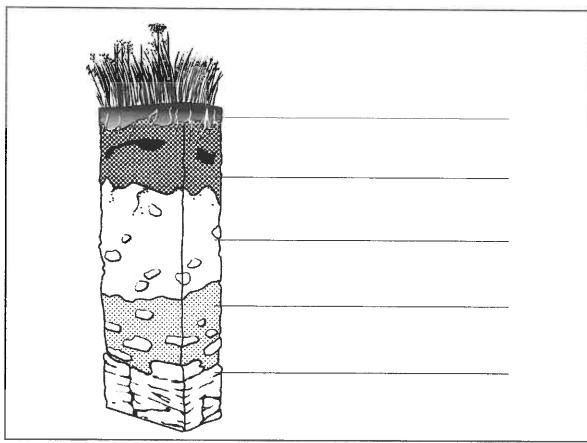
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ST

Definitions

Soil horizons are ______Permafrost is _____

Soil horizons



Conditions necessary for soil to be fertile

1			
2			
3		-	



The lithosphere: energy resources

ST

PAGES 195-199

Complete this Concept Review so you can keep a record of what you have learned.

Definitions		¥.*	
Ψ	Fossil fuels result		
1 1	Nuclear energy is		
	• Geothermal energy is		
	Energy resources		
) 	enev	-	
	ō	Advantages	Disadvantages

			UL	II.	111	,	21			
	Disadvantages					energy (see a see a s			The second secon	
	Advantages									
ces	Renewable (R) or nonrenewable (NR)									
Energy resources	Type of energy	Fossil energy					Nuclear	1		Geothermal energy

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The hydrosphere and energy resources

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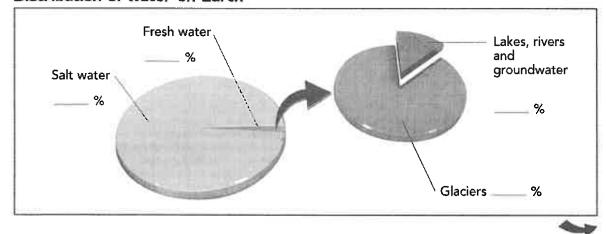
PAGES 200-210

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Definitions

The hydrosphere is
A watershed is
An ocean current is
Ocean circulation is
The cryosphere consists
Pack ice is composed
A glacier is
Hydraulic power (hydropower) is
A hydroelectric dam

Distribution of water on Earth









Name:	Group: Date:
Factors affecting how wa	ater flows within a watershed
-	
6	
Important parameters in	the study of oceans
Parameter	Factors influencing these parameters
	G
	•
	•
Ocean currents	
Ocean current	Characteristics
-	
-	
-	
Thermohaline circulation	
-	
_	
Hydraulic power	
Moving water	Facilities for transforming it into electricity
Waterfalls	
9	
• Waves	
•	*



The atmosphere: atmospheric pressure

PAGES 222-225 Complete this Concept Review so you can keep a record of what you have learned.

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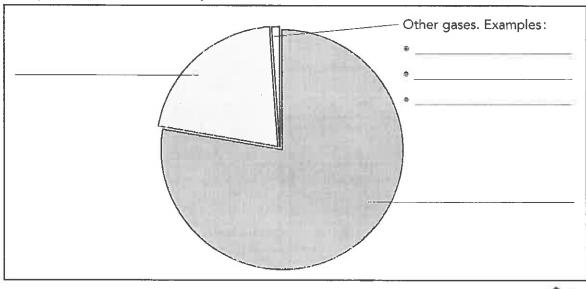
Definitions

* The atmosphere is	
• Air is	
Atmospheric pressure is	
Unit of measurement:	Symbol:

Role of the atmosphere in maintaining life on Earth

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Composition of the atmosphere







Layers of the atmosphere

Layer	Altitude	Distinctive features
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Thermosphere	80-500 km	 The hottest layer of the atmosphere: up to
		1800°C
		Shooting stars and polar auroras form here.
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		(* /1
		1 <u>*</u> 1
		[#·]

Factors affecting atmospheric pressure

Factor	Variation in the factor	Effect
Number of air particles	***	
		[# ³]
Temperature of air particles		
	Decrease	 Particles move closer together and the air tends to fall. A high-pressure area (anticyclone) forms.



The atmosphere: atmospheric circulation

ST PAGES 226-232

Complete this Concept Review so you can keep a record of what you have learned.

Definitions

Atmospheric circula	ation is	
• An air mass is		
A cyclone is		

Characteristics of fronts

Name	Formation	Movement of air	Meteorological conditions
		The warm air rises rapidly above the cold air.	 Formation of puffy clouds (cumulus) Probability of wind and heavy rain
		-	

Anticyclones and depressions

Name	Formation	Movement of air	Meteorological conditions	
	Surrounds a high-pressure centre			

	\sim	^1





Name:

The atmosphere: the greenhouse effect and energy resources

PAGES 233-239		
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a record of what		
you have learned.		

Definitions

The greenhouse effect is		
Climate change is		
● Wind energy is		
→ Wind energy is		

Factors leading to the intensification of the greenhouse effect

Greenhouse gas	Factors of natural origin	Factors linked to human activity
	 Forest fires Volcanic eruptions Cellular respiration 	
	 Digestion in wild animals Decomposing plants Swamps 	
	 Bacteria in the soil and oceans 	

Advantages and disadvantages of wind turbines

Advantages	Disadvantages

Name: _			Group:	Date:
REVIEW	Energy from the	Sun		PAC

PAGES 239-242
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Definitions

Solar energy is ■	

Characteristics of the Sun

Composition:	
Temperature at the centre:	
Form of energy emitted:	

Types of solar ray making their way to the Earth's surface

Technologies that put solar energy to use

Technology	Use	Characteristics
	Heating of homes	 Positioning of windows toward the Sun
Photovoltaic cells		
	waster was a fall and	

Advantages and disadvantages of solar energy

Advantages	Disadvantages



The Earth-Moon system and the tides

SI
PAGES 243-245
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you have learned.

Definitions

A tide is	
Tidal energy is	

Characteristics of the Moon

Average diameter:
Theory on its origins:
Duration of the Moon's rotation on its axis:
Duration of the Moon's revolution around the Earth:

Tidai range

Definition	Factors influencing tidal range
	*
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Advantages and disadvantages of tidal power plants

Advantages	Disadvantages	
	-	

The biosphere: biogeochemical cycles

PAGES 254–259

Complete this Concept
Review so you can keep
a record of what
you have learned.

Definitions

* The biosphere is	
A biogeochemical cycle is	
The carbon cycle is	
The nitrogen cycle is	

Layers of the Earth

Layer	Corresponds to
Lithosphere	The solid surface

Processes involved in biogeochemical cycles

Process	Examples
Biological	• Respiration • Digestion



Carbon and nitrogen cycles

Element	Biological utility	Transformations	
• Makes up the tissues of living organisms.	● Photosynthesis		
		Nitrogen fixation	

Name:	Group:	Date:
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Biomes: distribution factors and terrestrial biomes

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→ Biomes are	

Factors determining biome distribution

Terrestrial biomes	Aquatic biomes

Main terrestrial biomes

Biome	Location	Climate	Flora
			de Time and the Control of the Contr

Main terrestrial biomes (cont.)

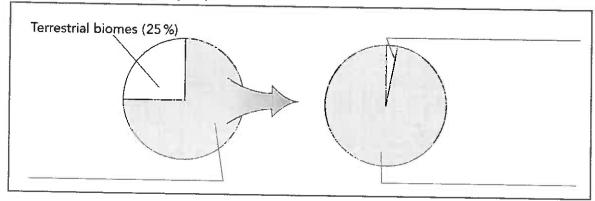
Biome	Location	Climate	Flora
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	- And the state of		
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		=======================================	
Al • 1 ·			■ Vegetation zones:
Alpine biomes	American and Ameri		Submontane
			(deciduous forests
			and grain crops), montane (conifers),
			subalpine (highest
			zone), alpine (bushes
			and grasses), nival
			(lichen)

Aquatic biomes

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Percentage covered by aquatic biomes



Salinity of water

Freshwater:	Salt water:	
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Freshwater bicmes

Biome	Definition	Examples of organisms living there
		and the state of t
		19.
		Maria
Wetlands:	Areas permanently or temporarily	Diameter Alice A
 Marshes 	covered with water	Plants that grow in water- saturated soil.
<u>*</u>		
•		

Marine biomes

Biome	Definition	Examples of organisms living there
	Bodies of water that are subdivided according to the depth of the water.	
	Environments characterized by the presence of calcium carbonate produced by coral	Between 500,000 and two million plant and animal species species live there.