Oxygen Cycle

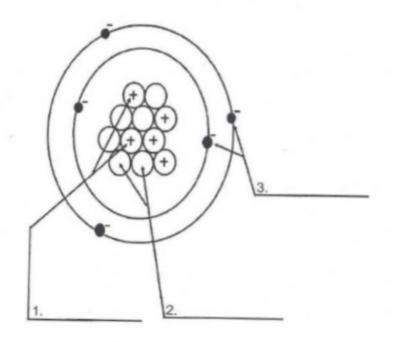
Photosynthesis		Ozone	Waste	Crust	Oceans	Respiration
1.	Plants release	430-470 billi	ion tons of o	oxygen duri	ng process of	
2.	Atmospheric ultraviolet ra		form of		provides prot	ection from harmful
3.			re on Earth,	from Earth	's	(rocks) to the
		where it	is dissolve	d.		
4.	Oxygen is vit water.	al for		_ by animal	s, a process w	hich produces CO2.and
5.	Oxygen is als necessary fo		or the decor	nposition of		into other elements
6.	Write the equ	ation for resp	oiration.	of 4		

Carbon Cycle

Coal	O	il N	atural Gas	burning of	fossil fuels	volcanoes
Phot	osynthesis	Respiration	ocean	sugar	Greenhouse	decayed
	oxygen.				o make	
2.	Animals use	oxygen in the	process of		and make more Co	O ₂ .
3.	Theeasily in it.	is the	main regulator of	CO ₂ in the atr	nosphere because	CO ₂ dissolves
4.	In the past, l	huge deposits of	of carbon were st	ored as dead pl	lants and animals	·
5.	Today these	deposits are b	urned as fossil fu	els, which incl	ude	,
		, and				
		s released in th	e atmosphere tod	ay than in the	past because of	
7.	Another nat	ural source for	CO ₂ is			
8.	Too much C	O ₂ in the atmo	sphere may be re	esponsible for t	the	effect.

Atomic Structure Worksheet

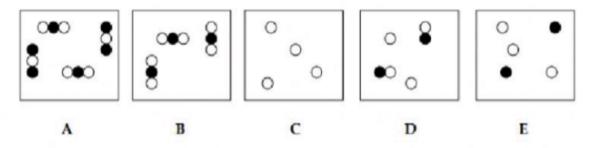
Label the parts of an atom on the diagram below.



- 4. What type of charge does a proton have?
- 5. What type of charge does a neutron have?
- 6. What type of charge does an electron have?
- 7. Which two subatomic particles are located in the nucleus of an atom?
- 8. If an atom has 35 protons in the nucleus, how many electrons will it have orbiting the nucleus?
- 9. What is the atomic number of the atom in the diagram above?
- 10. What is the atomic mass/mass number of the atom in the diagram above?
- 11. How many protons are in the nucleus of an atom with an atomic number of 15?
- 12. How many electrons are in the nucleus of an atom with an atomic number of 20?
- 13. How many neutrons are in the nucleus of an atom with an atomic number of 25? (use Periodic Table for mass)
- 14. What is the mass number of an atom with 3 protons, 4 neutrons, and 3 electrons?
- 15. How many neutrons are in the nucleus of an atom that has an atomic mass of 36 and an atomic number of 25?

Fill in the blanks with the correct answers THE RESIDENCE WHEN PERSON NAMED IN COLUMN 2 IS NOT THE OWNER. degree celsius high cold cannot be created thermometer temperature low cannot be seen degrees of hotness Hot 1. Heat is energy that _____ and 2. Temperature is an indicator of _____ 3. The of a substance can be measured using 4. The standard unit for temperature is 5. When measuring a _____ substance, the mercury level in the thermometer increasing or showing a _____ temperature reading. 6. When measuring a _____ substance, the mercury level in the thermometer decreasing or showing a ______ temperature reading.

Part 2: Match each diagram with its correct description. Diagrams will be used once.



Description
1. Pure Element - only one type of atom present.
2. Mixture of two elements – two types of uncombined atoms present.
3. Pure compound - only one type of compound present.
4. Mixture of two compounds — two types of compounds present.
5. Mixture of a compound and an element.

Evaporation and Condensation, Solutions

Find the pairs.

CONDENSATION

SOLUTION

FREEZING

EVAPORATION

MELTING

It happens when the water turns into water vapour

Ice turns into water

It is when the particles of two different types of matter mix.

Water turns into ice

chair

It happens when water vapour cools down and turns into water

Put the words in the right place.

carrot oxygen feather carbon-dioxide

coca-cola water vapour milk water

SOLID	LIQUID	GAS
No. 100		

True or False?

Sugar dissolves in water. TRUE FALSE

Sand melts in water. TRUE FALSE

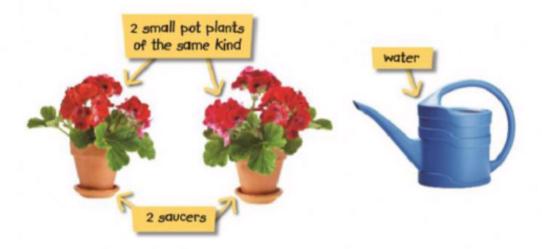
Water boils at 0°C. TRUE FALSE

Water vapour is the

solid state of matter. TRUE FALSE

Q2. Aliya planted two flowering plants in her garden. In pot A and B

- She poured same amount of water into both the pots.
- She placed pot A out in the open air on a sunny windowsill and pot B in the dark cupboard.
- After some days she observed that there is a difference between both the plants.



Vhich tw	vo factors sh	e kept same	to make this	test fair?	

 Plant on wir	dowsill	Plant in cupboard			