



THE DREAM EDUCATION CONCERN

"Quest for excellence"



PRE-PRIMARY LEAVING EXAMINATION SET FOUR 2024

OFFICIAL MARKING GUIDE
FOR
INTEGRATED SCIENCE



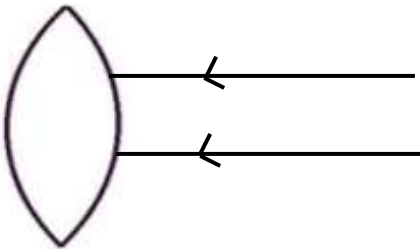
Set 4 Out of 10

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FOR ALL EXAMINATIONS FROM BABY TO P.7

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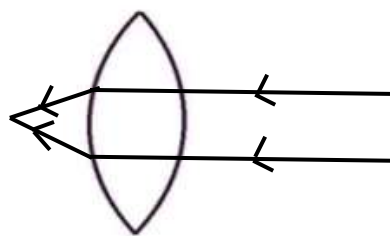
SECTION A (40 MARKS)

NO	RESPONSE AND RELATED CONTENT	CLASS
1	<p>Why is an axe called a simple machine?</p> <p>This is because an axe simplifies work</p> <p>Related content</p> <p>Simple machine are machines that are made up of few parts and do not need training to use</p> <p>Examples of simple machine</p> <ul style="list-style-type: none"> -Axes -Hoes -Water pumps -Wheel barrows -Panga 	P7
2	<p>Why is dew formed at night?</p> <p>This is because of condensation of air at night due to low temperatures</p> <p>Related content</p> <p>Changes which occur in different states of matter due to heat changes</p> <p>Solids to gases - Sublimation</p> <p>Gases to liquids – Condensation</p> <p>Gases to solid – Sublimation</p> <p>Liquids to gases – Evaporation</p>	P5
	<p>The diagram below shows parallel rays striking a convex lens, study it and answer questions 3 and 4</p> <div style="text-align: center;">  </div>	P7
3	Complete the diagram	

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4	<p>What eye defect does this type of lens correct? It corrects long sightedness Related content -Light is a source of energy that enables us to see -Bio-luminescence is the production of light by living things -Bio-luminescence objects include the following below; -Glow worms -Jery fish -Dragon fish -Fire flies</p>	
5	<p>Why is lightening said to be electricity? This is because lightening involves electricity charges Related content -Lightening is a huge light seen when positive charged clouds meet the negatively charged clouds during a storm -Lightening is seen before thunder is heard because light travels faster than sound -Lightening is useful in the environment because it fixes nitrogen in the soil</p>	P7
6	<p>What first aid would you give to a person who is suffering from diarrhea? The person can be given ORS The person can be given a lot of fluids Related content ORS stands for Oral Rehydration Solution Causes of dehydration -Severe diarrhoea -Severe vomiting -Signs of dehydration -Sunken eyes -Little or no urine -Dry lips</p>	P4

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	<ul style="list-style-type: none"> -Dry eyes -Sunken soft spot-on babies' head <p>How to prevent diarrhoea</p> <ul style="list-style-type: none"> -Covering left over food -Washing hands before eating food -Washing vegetables and fruits before eating them -Dysentery is the passing out of watery faeces with blood -Dehydration is a condition of the body when it does not have enough water in it 	
7	<p>Give one use of saliva in the digestive system.</p> <ul style="list-style-type: none"> -Saliva moistens food for easy swallowing -Saliva contains enzymes which are needed for digestion of starch <p>Related content</p> <ul style="list-style-type: none"> -Digestion is the process by which food is broken down into small soluble substances which can be absorbed into the blood stream -Digestion of man ends in the ileum but not anus -The movement of food from the mouth through the oesophagus to the stomach is called Peristalsis -The digestion of carbohydrates begins from the mouth -Digestion of starch begins in the mouth -Digestion of fats begins from the stomach -Large intestines are the organs which remove water from the undigested matter / food and form solid waste called (poop) or faeces 	P5
8	<p>Why is a bat called a mammal and not a bird?</p> <p>This is because it produces its young ones alive just like mammals</p> <p>Related content</p> <p>Groups of mammals</p> <ul style="list-style-type: none"> -Primates (most advanced fingered mammals) -Ungulates (hoofed mammals) -Carnivorous mammals (fresh eaters) <p>Characteristics of mammals</p> <ul style="list-style-type: none"> -Mammals are warm blooded -They have fur on their bodies -Most of them give birth to living young ones 	P6

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	-They feed their young ones on breast milk	
9	<p>Give any one characteristics of an image formed in a pinhole camera.</p> <ul style="list-style-type: none"> -The image is diminished (smaller than the object) -The image is inverted (upside down) -The image is real <p>Related content Under which principle does a pinhole camera work? -A pin hole camera works on a principle that light travels in a straight line Reasons why the image formed in a pinhole camera appear inverted -This is because light travel in a straight line</p>	P7
10	<p>Why is the ventilated improved pit latrine left without a cover</p> <p>A coverless VIP latrine allows continual free circulation of air in the vents there by removing foul air</p> <p>Related content VIP stands for Ventilated Improved Pit Latrine</p>	
11	<p>Which type of germination does a millet seed undergo?</p> <p>A millet seed undergoes hypogeal germination</p> <p>Related content -Epigeal germination is the type of germination where cotyledons come above the ground -Hypogeal germination is the type of germination where cotyledons remain under the soil -All dicotyledon seeds undergo epigeal germination -All monocotyledon seeds undergo hypogeal germination -All dicotyledons store their food in the cotyledons -All monocotyledons store their food in the endosperm</p>	P4
12	<p>Give any one role a school health club can play in the control of malaria in the community.</p> <ul style="list-style-type: none"> -Draining away stagnant water -Clearing bushes around the community -Pouring oil in stagnant water -Removing away containers which can bring water -Advising people to sleep under mosquito nets -Holding talk show about control of malaria 	P5

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	<p>-Hanging posters which contain messages on how to control malaria</p> <p>Related content</p> <p>-Malaria is caused by an infected female anopheles' mosquito</p> <p>-A male anopheles' mosquito does not spread malaria because it does not feed on blood but nectar and juice from plants</p> <p>Reject female Anopheles if the word infected is not indicated, this is because it has to be infected for it to spread malaria parasites</p> <p>-Mostly these mosquitoes like laying their eggs in stagnant water because the water will not flow any where, so this makes their eggs safe</p>	
13	<p>Why should harvesting be done during dry season?</p> <p>There is enough sunshine to dry the harvested crops</p> <p>Related content</p> <p>Disadvantages of early harvesting</p> <p>-Seeds contain a lot of moisture, so they can rot</p> <p>-The quality of seeds is poor</p> <p>-The grains are small and shrunk</p> <p>-The seeds are not good for harvesting</p> <p>Reasons why rat guards are fixed on granaries</p> <p>To avoid rats from entering the granary</p> <p>Methods of harvesting crops</p> <p>-Hand picking</p> <p>-Plucking</p> <p>-Digging</p> <p>-Uprooting</p>	P5
14	<p>What is moulting?</p> <p>Moulting is the periodic loss of cuticles from arthropods</p> <p>Related content</p> <p>Ways how animals with exo-skeleton increase in size</p> <p>By moulting</p> <p>-Exo-skeleton is the type of skeleton which is found outside the body</p> <p>-Endo-skeleton is the type of skeleton found inside the body</p> <p>-Hydrostatic is the type of skeleton where the body of an animal is filled with fluid under pressure</p>	P7

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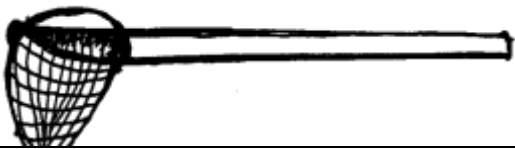
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	Functions of a skeleton The skeleton gives body shape The skeleton help in body movement The skeleton protects delicate body parts The skeleton help in muscle contraction The skeleton provide support to the body	
15	Which part of a cow is affected with mastitis? Under the teats Related content Ruminant: These are ungulates with four stomach chambers and chew the cud These four chambers of a ruminant stomach are; -Reticulum -Rumen -Omasum -Abomasum Signs and symptoms of mastitis -Swollen udder -Pus and blood udder -Anany goat or ram does not allow sucking Examples of ruminant -Cattle -Goats -Sheep -Camel -Antelopes None ruminant These are ungulates which do not chew the cud but have a complete dentition Examples of none ruminant -Pigs -Hippopotamus -Warthog	P6
16	Suggest any one reason why farmers cut off the leaves of bananas before planting -To protect the banana fibre from wilting -To protect it from pests	

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	<p>-To produce the rate at which it reduces water through trans evaporation</p> <p>Related content</p> <p>Trans evaporation is the process of losing water from both the soil by evaporation and transpiration from the leaves of plants growing on it</p> <p>Bananas are mostly propagated by;</p> <ul style="list-style-type: none"> -Rhizomes -Suckers <p>Note: Commercial banana plants are propagated asexually by Rhizomes</p>	
17	<p>Study the diagram below showing Masiga Junior ready in the football pitch / field</p>  <p>Which type of energy is possessed by the ball as in diagram above?</p> <p>It is potential energy</p> <p>Related content</p> <ul style="list-style-type: none"> -Bodies in motion possess kinetic energy -All bodies at rest possess potential energy -A person running with object held possesses kinetic energy while object on head possesses potential energy 	
18	<p>In the space provided, draw a diagram of a swarm catcher.</p> 	P5
19	<p>How important is the above drawn tool to a farmer?</p> <p>The farmer uses the above tool to transfer the bees trapped to the main bee-hive</p> <p>Related content</p> <p>Main products of bees</p>	

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	<ul style="list-style-type: none"> -Honey -Wax <p>Other related products of bees</p> <ul style="list-style-type: none"> -Bee venom -Propolis -Royal jelly -Combs -Local bee hives include -Woven bee hive -Dug out log bee hive <p>Advantages of local bee hives</p> <ul style="list-style-type: none"> -They are easy to make they are made from locally available materials -They are cheap to maintain <p>Disadvantages of local bee hives</p> <ul style="list-style-type: none"> -It is easy to be destroyed -Lasts for short time -Honey is not always clean -Its not easy to harvest its honey 	
20	<p>Mention any one sign of a nanny goat on heat.</p> <ul style="list-style-type: none"> -Loss of appetite -Mounting other goats -Standing still when mounted -The vulva swells and become reddish -Whitish discharge from the vulva <p>Ways of caring for a pregnant goat</p> <ul style="list-style-type: none"> -Concentrates should be given one month before kidding -Mineral licks should be given -A pregnant goat should be kept separate from other goats and in a clean place -Routine jobs in goat management -Routine jobs are any good management practices carried out on any livestock farm <p>Examples of routine jobs on a livestock farm</p> <ul style="list-style-type: none"> -Drenching -Castration -Dipping 	P5

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	<ul style="list-style-type: none"> -Dosing -Feeding -Culling -Hoof trimming 	
21	<p>Name the device which is used to switch electric appliance on and off automatically</p> <p>It is a thermostat</p> <p>Related content</p> <p>Things which use a thermostat</p> <ul style="list-style-type: none"> -Electric flat irons -Refrigerators -Car indicators -Air conditioners <p>Bimetallic strip</p> <p>This is a strip which consist of two metals with different expansion rates</p>	P4
22	<p>Why are bacteria and fungi regarded as decomposers?</p> <p>They break down organic matter</p> <p>Related content</p> <ul style="list-style-type: none"> -Food chain refers to the way living organisms in the environment obtain their food -Primary consumers are organisms which feed directly on producers <p>Example of primary consumers</p> <ul style="list-style-type: none"> -Grass hoppers -Rabbits -Goats -Cows <p>Secondary consumers</p> <p>These are organisms that feed on primary consumers</p> <p>Examples of secondary consumers</p> <ul style="list-style-type: none"> -Lion -Frogs -Toads -Tiger -Man 	P7

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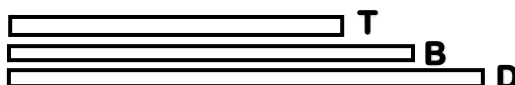
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23	<p>Give any way in which a child health card is important to a school health committee.</p> <ul style="list-style-type: none"> -It shows the health records of a child -It shows the dates of immunisation against diseases 	
24	<p>How can a poultry farmer control cannibalism on his farm?</p> <ul style="list-style-type: none"> -Provide enough feeds to the birds -Hang green leafy vegetation in the poultry house -Avoid over crowding the birds <p>Related content Signs of poultry vices</p> <ul style="list-style-type: none"> -Fighting amongst poultry -Bleeding at the vent -Yellow stained beaks / bills -Broken egg shell in the poultry house in case of egg eating -Dead birds in case of cannibalism -Poultry vices are bad habits in poultry 	P5
25	<p>Convert 41°F degrees Fahrenheit to degrees Celsius.</p> <p>Solution process</p> $C^{\circ} = (F - 32) \times \frac{5}{9}$ $C^{\circ} = (41 - 32) \times \frac{5}{9}$ $C^{\circ} = (9^{\circ}) \times \frac{5}{9}$ $C^{\circ} = 5 \times 1$ $C^{\circ} = 5^{\circ}$ $41F = 5^{\circ}C$ <p>Related content Let us try to convert our answer above which is 5°C to Fahrenheit degrees</p> <p>Solution process</p> $F = (C \times \frac{5}{9}) + 32^{\circ}$ $F = (5 \times \frac{5}{9}) + 32$ $F = \frac{(5 \times 9)}{5} + 32$ $F = (\frac{5}{9}) + 32$	P5

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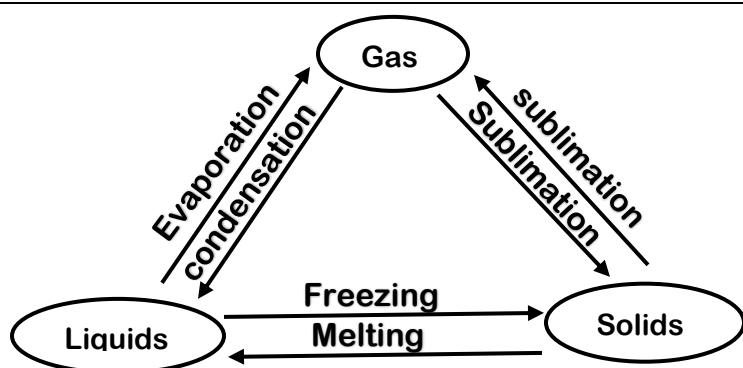
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	<p>$F = 9 + 32$ $F = 41^{\circ}$ Therefore 5°C will equal to 41°F So we tried to change our answer above which was 5°C and it took us back to our original question line</p>	
26	<p>How is respiration of a tadpole similar to that of a fish?</p> <ul style="list-style-type: none"> -Both breathe in dissolved oxygen in water -Both use gills for breathing <p>Related content Breathing in fish</p> <ul style="list-style-type: none"> -Fish breath in dissolved oxygen in water -Gill filaments are many in order to give large surface area to absorb a lot of dissolved oxygen in water for respiration -Fish have gill rakes to trap solid particles or dirt to prevent damage to fish gills <p>Difference between a frog and a toad</p> <ul style="list-style-type: none"> -Toads lay eggs in long ribbon spawns while frogs lay eggs in mars spawn -Frogs breathe through their lungs and moist skin while toads breathe through their lungs 	P6
27	<p>The diagram below shows three types of metals, study it and answer questions that follows</p> <div style="text-align: center;"> <p>X before heating</p>  </div> <div style="text-align: center;"> <p>Y after heating</p>  </div> <p>Explain the cause of difference in length after they have heated This is because the above metals have different rate of expansion</p> <p>Related content</p>	P5

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Explanation for the above changes of heat transfer in different states of matter

1- Sublimation is the physical change from gas to solids and vice verse

2- Melting is the physical change from solids to liquids

3- Condensation is the physical change from gas to liquids

Effects of heat on matter

-Heat makes matter expand

-Heat cause evaporation

-Heat cause melting

-Heat cause raise in temperature

-Heat cause sublimation

-Heat makes molecules in gases and liquids mobile

-If there were no gaps left while constructing railway lines, the rails would expand on cold days and bend which would cause railway accidents

28 What are voluntary muscles?

Voluntary muscles are muscles which can be controlled

Related content

Examples of voluntary muscles

-Biceps (flexor muscles)

-Triceps (extensor muscles)

-Thigh muscles (quadriceps)

-Antagonistic muscles

-Antagonistic muscles are muscles that work in pairs and have opposite effect on each other

Characteristics of voluntary muscles

-Movement of voluntary muscles is under one's will

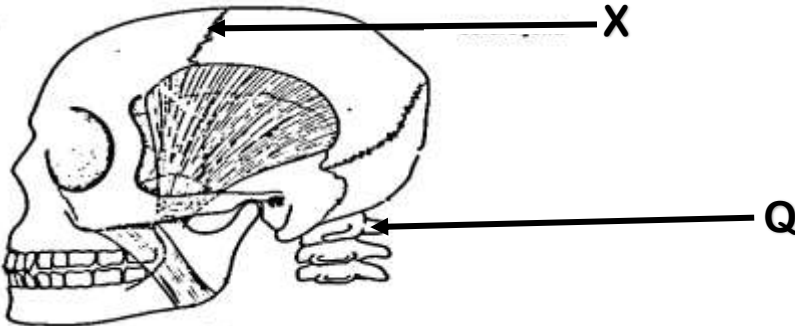
P7

	<ul style="list-style-type: none"> -Voluntary muscles are fibrous -Voluntary muscles get tired quickly 	
29	<p>In which part of female reproductive system does fertilization take place?</p> <ul style="list-style-type: none"> -Fertilization takes place in the oviduct -Fertilization takes place in the fallopian tube <p>Related content Fertilization refers to the fusion / union of the egg and sperms resulting in a zygote</p>	P6
30	<p>What do you understand by the term a plug?</p> <p>A plug is a device that connects an electric appliance to the main source of electricity</p> <p>Related content</p> <ul style="list-style-type: none"> -The two types of plugs -Three pin plugs <p>Examples of devices that use two pin plugs</p> <ul style="list-style-type: none"> -Television -Electric fans -Telephones 	P7
31	<p>Which type of immunity do babies get from their mothers?</p> <p>Natural immunity / In born immunity</p> <p>Related content Immunity is the ability of the body to resist disease causing germs</p> <p>Reasons why pregnant mothers are advised to feed on food rich in proteins</p> <ul style="list-style-type: none"> -To repair worn out body tissues of the mother -For proper growth of the foetus /Embryo -Help to make antibodies that boost immunity of the baby and the mother 	
32	<p>What is the difference between drenching and dosing?</p> <p>Drenching is the giving of liquid medicine to the livestock through the mouth while dosing is the giving out of solid medicine like tablets using a dosing gun to kill endo parasites like worms</p> <p>Related content</p> <ul style="list-style-type: none"> -Dehorning 	P5

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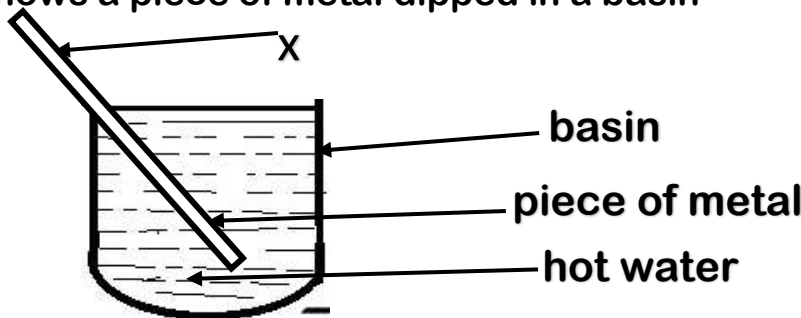
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	<p>-Dehorning is the removal of horn buds to prevent the growth of horns</p> <p>Advantages of dehorning</p> <ul style="list-style-type: none"> -Creates space on the farm -Help in identification of animals -Prevents livestock animals from injuring others <p>The work of a drenching gun</p> <ul style="list-style-type: none"> -To give liquid medicine to the animals through the mouth <p>Work of a dosing gun</p> <ul style="list-style-type: none"> -To give solid medicine to the livestock animal in order to prevent endoparasites 	
	<p>Below is a diagram showing a given type of a joint, use it to answer questions 33 and 34</p> 	P7
33	<p>Name the joint marked X.</p> <p>Joint X is a suture joint</p>	
34	<p>How do we call joint marked Q?</p> <p>Joint marked Q is pivot joint</p> <p>Related content</p> <p>A pivot joint is a joint that allows rotation of certain parts of the body on other parts</p> <p>A joint is a place where two or more bones meet in the body</p> <p>Types of joints</p> <ul style="list-style-type: none"> -Movable joints -Immovable joints <p>Ligament</p>	

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	<p>Is a tough elastic fibre that joins a bone to a bone</p> <p>Tendon</p> <p>A tendon is a tough elastic fibre that joins a bone to a muscle</p> <p>/tendon</p>	
35	<p>Name the disease of birds which affects poultry.</p> <p>-Coccidiosis</p> <p>-Pneumonia</p> <p>Related content</p> <p>Rabbit feeds</p> <p>-Pellets</p> <p>-Banana peelings</p> <p>-Potato peelings</p> <p>-Green grass</p> <p>-The act of giving birth/ producing young ones in rabbits is called kindling</p> <p>-A female rabbit is called a doe</p> <p>-A male rabbit is called a buck</p> <p>Other diseases which affect rabbits</p> <p>-Ear canker</p> <p>-Colds</p> <p>Signs and symptoms of Pneumonia</p> <p>-Rabbits begin shivering</p> <p>-Rabbits begin having difficult in breathing</p> <p>-Rabbits lose appetite</p> <p>-Rabbits always have high temperature</p>	P5
36	<p>The diagram below shows a piece of metal dipped in a basin containing hot water.</p>  <p>After a few minutes part marked X became hot, explain why yet it was not in hot water.</p> <p>Part marked X became hot due to conduction</p> <p>Related content</p>	

	<p>-Heat transfer through solids by conduction</p> <p>-Heat in solid state moves faster than all other states of matter because the molecules are packed tightly or compact to one another and by so doing, heat travels from one molecule to another quickly by conducting and hence conduction</p> <p>-Heat managed to reach part X due to conduction since the metal is in solid state of matter</p> <p>-Water in the kettle boils to become tea by conduction causing the bottom molecules of the liquid (tea) to be heated and they move upwards as the cold molecules move downwards ie the water becomes heated by actual movement of the molecules</p> <p>-Heat from the sun is able to reach the clothes hanged on a wire by radiation. This is because heat travels through gases by radiation so from the sun to the Earth heat travels through space which has gas as state of matter</p>	
37	<p>Name the group of musical instruments to which the instrument below belongs.</p>  <p>It belongs to string instruments</p> <p>Related content</p> <p>-Sound is the form of energy produced by vibration of an object</p> <p>-An echo is a reflected sound</p> <p>-The bouncing back of sound wave is called an echo</p> <p>Uses of echo in nature</p> <p>-Location and Navigation</p> <p>-Communication in birds</p> <p>-Determination of object characteristics</p> <p>-Orientation in caves</p> <p>-Location of prey by marine mammals</p> <p>-Communication in insects</p> <p>Groups of musical instruments</p> <p>(a) String instruments</p> <p>These are instruments that produce sound by vibration of their strings being plucked</p>	

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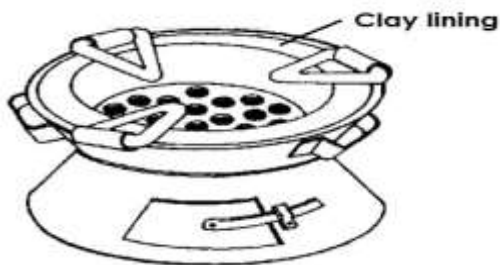
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	<p>Examples of string instruments</p> <ul style="list-style-type: none"> -Tube fiddle -Harp -Guitar -Violin <p>(b) Percussion instruments</p> <p>These are musical instruments that produce sound by vibration of their surface when hit</p> <p>Examples of percussion instruments</p> <ul style="list-style-type: none"> -Drums -Thumb piano -Shakers -Xylophone -Rattles <p>(c) Wind instruments</p> <p>These are instruments which produce sound by vibration of air blown inside them</p> <p>Example of wind instruments</p> <ul style="list-style-type: none"> -Recorders -Whistles 	
38	<p>State one reason why magnets are kept in keepers.</p> <p>To prevent magnets from losing their magnetism</p> <p>Related content</p> <p>How do keepers protect magnets from losing their magnetism?</p> <p>By absorbing magnetism</p> <p>Laws of magnetism</p> <ul style="list-style-type: none"> -Magnetic lines of force do not intersect within each other. There is no line of force within the magnet itself -Magnetic line of force run from the north pole to the south pole <p>Magnetisation</p> <p>Magnetisation is the way of making magnets</p> <p>Methods of making magnets</p> <ul style="list-style-type: none"> -Electric method -Induction method -Touch method 	P7
	Study the diagram below and answer the questions that follow.	P7

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39

Why is the above stove said to be good in conserving the environment?

This is because the above use less charcoal

Related content

Why energy stoves use less charcoal

Energy saving stoves keep heat for a long time

Importance of clay lining on the energy saving stove above

The clay lining keeps heat for a long time

Examples of wood fuel

- Fire wood
- Charcoal
- Wood shaving
- Saw dust
- Briquettes

Forms of energy stored in charcoal

Chemical energy

How is the sun used as energy resource

- Light from the sun enables plants to make food
- Light from the sun is used for photosynthesis
- Light from the sun enables us to see
- Light from the sun help us to generate solar electricity

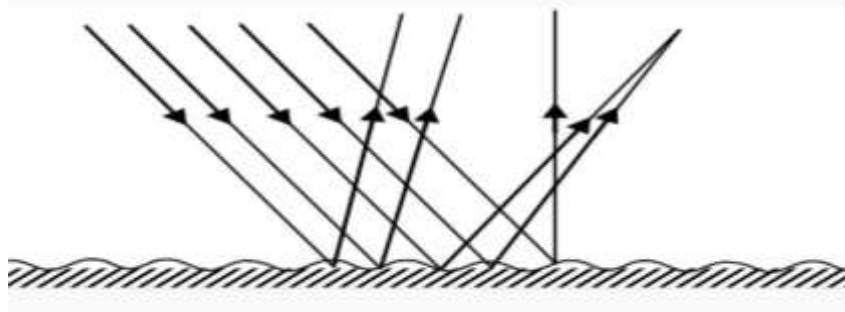
How is water used as a resource

- Fast running water help to generate Hydro-electricity power
- Tides are used to generate tidal electricity
- Steam from hot spring is used to generate geothermal electricity

40

What type of reflection is represented by the diagram below?

P7



It is called irregular or diffuse reflection

Related content

Reflection is the bouncing back of light rays

Types of reflection

-Irregular reflection / diffuse reflection

-Regular reflection

How does irregular reflection occur

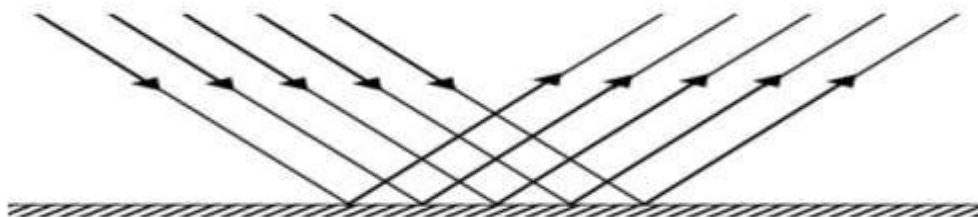
When light rays fall on a rough polished surface

Irregular reflection is the type of reflection where light rays are thrown back and scattered in different direction

Regular reflection

This is the type of reflection where light rays are sent back in definite direction

Diagrammatic illustration of regular reflection



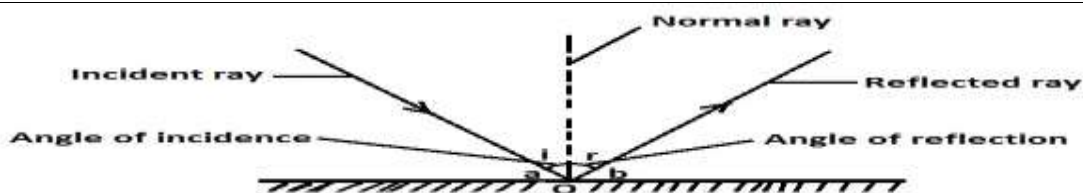
How does regular reflection occur

This type of reflection occurs when light rays fall on a smooth shiny polished surface

Reasons why we are able to see clear images in plane mirrors

-Plane mirrors have smooth shiny polished surface that give rise of regular reflection

Diagrammatic illustration of reflection on a plane mirror



Incident ray is that strikes the reflecting ray

Reflected ray

-A reflected ray is a ray that bounces off the reflecting surface

-Normal ray is a ray that is perpendicular to the reflecting surface

-Angle of reflection is the angle between the normal and the incident ray

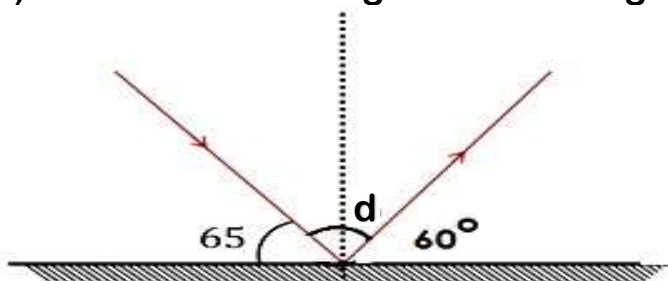
Laws of reflection

-The angle of incident is equal to the angle of reflection

-The incident ray, the normal ray and the reflected ray at the point of incidence all lie on the same plane

Calculation of sizes of angles

(a) Find the size of angle d in the diagram below



Solution process

$$d + 60^\circ = 90^\circ$$

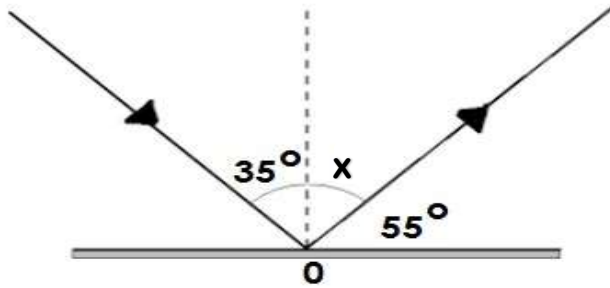
$$d + 60^\circ = 90^\circ + d - 60^\circ$$

$$d = 90^\circ - 60^\circ$$

$$d = 30^\circ$$

Therefore, angle d ($\angle d$) = 30°

(b) size of angle X



Solution process

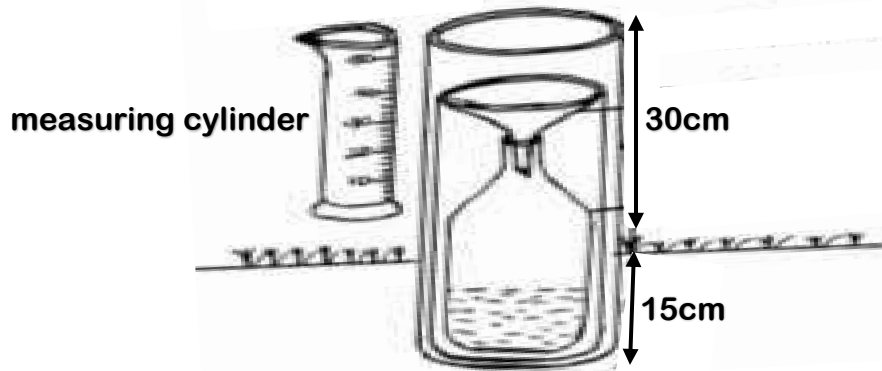
Since $\angle i = \angle r$

Therefore, $\angle x = 35^\circ$

SECTION B (60 MARKS)

41

Study the diagram below and answer the questions that follows.



(a) Give the reason why people are always advised to;

(i) Raise the instrument 30cm above the ground.

This is to prevent splashes and flowing of water on the ground from entering the rain gauge

(ii) Place the instrument 15cm below the ground.

-This is done to prevent evaporation of water collected

-This is also to make sure the instrument is firmly grounded in the soil

(b) State one reason why rainfall is measured in millimetres.

To know the depth of rain water in the soil

(c) What is the use of an instrument drawn above at a weather station?

The above instrument is used to measure the amount of rainfall received in an area

Related content

A wind vane is placed in an open place or on top of a building to prevent wind obstruction

Note: An arrow of a wind vane points to the direction from which wind is blowing

A wind sock determines the strength of wind is not among instruments found at a weather station

Places where a wind sock can be found

-Chemical plants

-Air fields

-Airports

Elements / factors of weather

-Humidity

-Air pressure

-Cloud cover

-Temperature

-Wind

Main aspects of weather

-Rainfall

-Temperature

Weather forecasting

This is the telling of expected weather future conditions of an area

Importance of weather forecasting

-It helps farmers to plan well their farm activities like planting, harvesting e.t.c

-It helps travellers to prepare for their journeys

-It helps pilots and sailors to avoid air and water accidents

Types and conditions of weather

Types of weather

-Sunny weather

-Windy weather

-Cloudy weather

-Rainy weather

conditions of weather

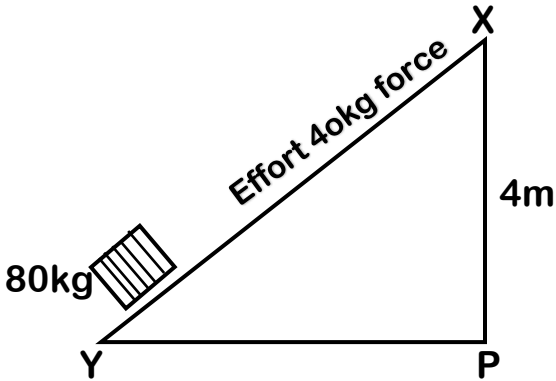
Rainy

Windy

Cloudy

Rainy

Note: The Dream advises all the teachers who teach both social studies and science to emphasize the difference between the types of weather, condition and factors /elements. This is because many learners tend to misunderstand how to separate them.

42	<p>The diagram below shows a machine used to lift loads. use it to answer questions that follows</p>  <p>(a) Find the mechanical advantage of the machine above. Mechanical advantage = Load divided by effort $MA = \frac{L}{E} = \frac{80}{40} = 2$ The mechanical advantage is 2</p> <p>(b) through what distance is the load to be lifted? The load is to be lifted 4m high</p> <p>(c) How can a machine be improved? Increase the effort distance by reducing on the inclination of the plane</p> <p>(d) Give the advantage of lifting the load along side XY. Work becomes easy due to lesser effort used in lifting the load</p> <p>Related content Advantages of using inclined plane</p> <ul style="list-style-type: none"> -They help people to use less effort to raise loads -They reduce the effects of gravity as one raises the load -Wedge is a tool with a narrow point that gradually becomes wider <p>Examples of wedges</p> <ul style="list-style-type: none"> -Razorblades -Axe 	P7
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- Hoe
- Panga
- Knife
- Needle

Use of wedges

- Are used to peel food (some of them)
- Some wedges are used to split fire wood
- Some wedges are used for digging

Screw

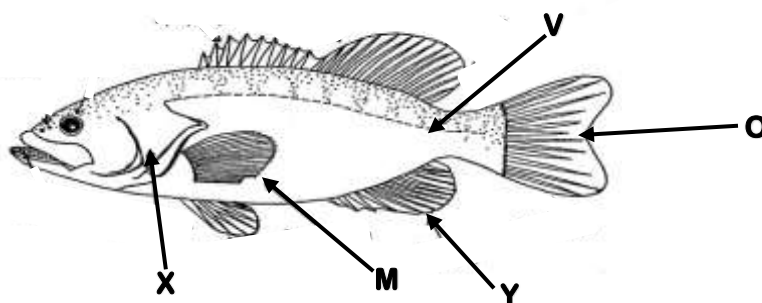
A screw is an inclined plane wound around the rod

Examples of screws

- Bolts
- Nuts
- Screw driver
- Spiral stair cases

43 Study the fish below and answer questions that follows.

P6



(a) Name part marked Y.

The part marked Y is anal fin / ventral fin

(b) What is the function of part marked V and O?

-Part V is used by the fish to sense its surroundings and detect its predators

-Part O is used by the fish for forward propulsion

(c) What structure is covered by part labelled X?

Structure marked X covers the gills

Related content

Other parts of a fish and their functions

-Operculum

	<p>This covers the gills in other wards protect the gills from external injuries</p> <p>-Pelvic fin</p> <p>This contributes to stability and help to control the fish's pitch</p> <p>-Swim bladder</p> <p>Buoyancy. This is a gas filled organ which helps the fish to control its buoyancy</p> <p>-Mouth</p> <p>-This is used by the fish to take in water and food</p> <p>-Fish breathe in dissolved oxygen</p> <p>Types of fish</p> <p>-Boney fish</p> <p>-Cartilaginous fish</p> <p>-Lung fish</p> <p>How do fish adopt living in water?</p> <p>-They have slippery scales to protect them from predators</p> <p>-They have gills for breathing in water</p> <p>-They have lateral lines to detect sound waves</p>	
44	<p>(a) State any two causes of soil erosion.</p> <p>-Bush burning</p> <p>-Over grazing</p> <p>-Over stocking</p> <p>-Deforestation</p> <p>-Over cultivation</p> <p>-Mono cropping</p> <p>-Poor methods of farming</p> <p>(b) Which agent of soil erosion causes gullies?</p> <p>Flowing water</p> <p><u>Reject running water since it has no legs</u></p> <p>(c) How does soil erosion lead to soil infertility?</p> <p>Leads to loss of humus from the soil which binds it together</p> <p>(d) How do the people who live around Kigezi regions control soil erosion?</p> <p>-By terracing</p> <p>Related content</p> <p>Soil erosion is the washing away of top soil by its agents</p> <p>Types of soil erosion</p>	

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	<ul style="list-style-type: none"> -Splash erosion -Gully erosion -Sheet erosion -Rill erosion -Wind erosion <p>Mulching This is the covering of soil using plant materials</p> <p>Ways of controlling soil erosion</p> <ul style="list-style-type: none"> -By terracing -By mulching -By planting trees -By planting paspalum <p>Note: Wind can become an agent of soil erosion depending on it's level of pressure therefore, we write strong wind as an agent of soil erosion instead of "wind" only</p>	
45	<p>The candidate class went on a tour in Nakasongola where UMEME had gone extend electricity in a project called rural electrification sponsored by government of Uganda. They witnessed that the wires were left loose / sagging.</p> <p>(a) State one reason why the wires were left sagging. The loose fixing allows room for expansion and contraction on hot or cold days</p> <p>(b) What would happen if the wires were tightly fixed? The wires would break as there will be no room for expansion</p> <p>(c) Why are electric wires placed high up? To avoid electric shocks and burns in case of animal and people coming into contact with them.</p> <p>(d) Why are timber poles used instead of metallic poles when doing electrification? Wood is an insulator while metal is a good conductor of heat so wood prevents electric burns and shock since its a bad conductor of heat</p> <p>Related content Rural electrification is the extension of electricity to rural areas</p> <p>Importance of rural electrification</p> <ul style="list-style-type: none"> -Reduces rural urban migration -Improves standards of people in the village 	P5

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	<p>Uses of conductors</p> <ul style="list-style-type: none"> -They are used to make saucepans -They are used to make kettles -They are used to make bottoms of iron boxes <p>Conductors are materials which allows heat to pass through them</p> <p>Examples of conductors</p> <ul style="list-style-type: none"> -Iron -Mercury -Aluminium -Brass <p>Insulators</p> <p>These are materials which don't allow heat to pass through them</p> <p>Examples of insulators</p> <ul style="list-style-type: none"> -Wood -Water -Papers -Clothes <p>Uses of insulators</p> <ul style="list-style-type: none"> -Papers are used to make cards -Clothes keep us warm <p>Application of reflectors</p> <ul style="list-style-type: none"> -Most refrigerators are painted white to reflect heat and remain cool inside -A Stevenson screen is painted white ton reflect heat -Most vehicles are painted white to reflect heat -People in hot areas / regions wear white clothes to reflect heat 	
46	<p>Use the list of crops given below to answer the questions that follows.</p> <p>Conifer, Coffee, Cassava, Groundnuts.</p> <p>(a) Which plant on the list above is planted by use of stem cutting?</p> <p>Cassava</p> <p>(b) Identify any one crop on the list which is;</p> <p>(i) An annual</p> <ul style="list-style-type: none"> -Groundnuts -Cassava 	P6

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(ii) A perennial

-Coffee

(c) Give any one way in which a conifer is different from other crops on the list.

A conifer is a non flowering plant while others are flowering plants

47 The table below shows human organs, the system to which they belong and the organ functions. Study and complete it correctly. **P5/P6**

ORGANS	SYSTEM	ORGAN FUNCTIONS
Heart	Circulatory	It pumps blood to all body parts
Kidney	Excretory	Formation of urine
Epididymis	Reproductive	It stores sperms
Pancreas	Digestive	Produces pancreatic juice

Related content

Organs related to the circulation of blood

-The heart

-The lungs

-The kidney

-The small intestines

-The liver

Blood vessels

These transport blood to and from the heart to the body tissues

Arteries

These carry blood away from the heart to various parts of the body

Characteristics of arteries

-They transport blood away from the heart to other body parts

-They have thick muscular walls to withstand and maintain high pressure of blood

-They have narrow lumen to maintain the pressure of blood inside them

Note: All arteries carry oxygenated blood except pulmonary arteries

	<p>Veins These carry blood from other parts of the body to the heart Note: The main vein is called the Vena Cava Characteristics of veins -All veins carry de-oxygenated blood apart from pulmonary vein -Veins have a wide Lumen which allows blood to flow at a low pressure Note: Portal veins are unique that they can carry blood from one organ to another this is because they have capillaries at both ends</p>	
48	<p>(a) What is drug prescription? Drug prescription refers to the health workers' written information on how a drug should be used (b) Write any two characteristics of laboratory manufactured drugs. -They have expiry and manufactured dates -They are well labelled -Their strength, stability and purity are known -They are carefully made and tested -Their effects on human health are known -They are the same for each quality (c) State the effect of smoking to unborn babies /foetus. -Smoking can lead to cognitive and behavioural issues -Babies born smoking mothers are likely to have respiratory problems such as wheezing and asthma Related content Smoking This refers to the act of inhaling and exhaling of the smoke produced by burning plant material Chemicals found in tobacco -Tar -Nicotine Reasons why people smoke -To pass time -For socialisation -To feel warm -To feel confident</p>	P6

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	<ul style="list-style-type: none"> -To look mature -To look attractive <p>Types of smoking</p> <ul style="list-style-type: none"> -Active smoking -Passive smoking <p>Effects of smoking to an individual</p> <ul style="list-style-type: none"> -It leads to lung cancers -It leads to bronchitis -It leads to heart stroke -It leads to peptic ulcers -It leads to cancer of the mouth and throat 	
49	<p>Study the diagram below and answer the questions that follow</p> <p>(a) Name the parts marked W and Z W – Bulb Z – Fuse</p> <p>(b) State the energy change that takes place at S. Chemical energy is converted to electrical energy</p> <p>(c) Give one form of energy produces at W when X is closed. -Light energy -Heat energy</p>	
50	<p>(a) How does a lightening conductor control lightening? A lightening conductor directs electric charges to the metal strip in the ground without damaging the building</p> <p>(b) State any two ways of preventing lightening in the environment.</p>	P7

	<ul style="list-style-type: none"> -Switching off electric appliances when it is raining -Never to stand under trees when it is raining -Avoid swimming in open water when it is raining -Never stand in open places when it is raining -Always wear rubber shoes when it is raining <p>(c) Outline any one use of electricity</p> <ul style="list-style-type: none"> -Electricity is used for cooking -Electricity is used to run some machines -Electricity is used for washing -Electricity is used for ironing clothes 	
51	<p>(a) What is Rabbitry?</p> <p>A rabbitry is a farm of rabbits</p> <p>(b) Suggest any two reasons why people keep rabbits.</p> <ul style="list-style-type: none"> -Rabits are sold to get money -Rabbits are source of food -The rabbit dung can be used as manure in the garden -Rabbits' meat are source of proteins in the body -Rabbits can be kept as pet <p>(c) What name is given to a house of rabbits?</p> <p>It is called a hutch</p>	P5
52	<p>(a) State any two advantages of breast feeding to the mothers.</p> <ul style="list-style-type: none"> -Breast feeding delays the next pregnancy -Breast feeding is time saving to the mother -Breast feeding improves the health of the mother since she eats all the time to maintain breast availability for feeding <p>(b) Define bottle feeding.</p> <p>This is the act of suckling a child using a bottle filled with cows' milk or other drinks</p> <p>(c) Outline any one disadvantage of bottle feeding.</p> <ul style="list-style-type: none"> -It is expensive -It takes a lot of time to prepare milk or other drinks -Bottle feeding encourages early pregnancy -Bottle feeding does not create love between the mother and the child -It may become a source of diseases if not cleaned properly -Cows' milk is difficult to digest by babies' stomach since it has a lot of fats 	P5

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53	<p>(a) What kind of food is made by green plants? -Carbohydrate -Starch -Glucose -Sugar</p> <p>(b) State any one raw material used by green plants during photosynthesis. -Sun light -Water -Carbon dioxide</p> <p>(c) Give one reason why photosynthesis does not take place at night. There is no sun at night</p> <p>(d) How is chlorophyll important during the process of photosynthesis? Traps sun light</p>	
54	<p>(a) State the respiratory organs which are protected by the rib cage. The lungs</p> <p>(b) What happens to the rib cage during the following processes (i) Breathing in They move upwards and outwards (ii) Breathing out They move downwards and inwards</p> <p>(c) Give the use of oxygen we breathe in. -Oxygen is used for respiration -Oxygen is used to burn food to release energy -Oxygen is used for oxidation</p>	p
55	<p>(a) Why are babies said to have many bones than adults? Babies are born with many cartilages which later join to form bones</p> <p>(b) What scientific term is used to mean the process by which cartilages turn into bones? The term is known as ossification</p> <p>(c) Identify the two regions of a skeleton. -Axial region -Appendicular region</p>	

	<p>Related content</p> <p>Parts which make up the Axial region of a skeleton</p> <ul style="list-style-type: none"> -Skull -Back bone -Ribs <p>Parts which make up appendicular region of a skeleton</p> <ul style="list-style-type: none"> -Girdles -Limbs <p>A bone</p> <p>Is a hardest tissue found in the body of an animal</p> <p>Examples of long bones</p> <ul style="list-style-type: none"> -Tibia -Femur -Fibular -Ulna -Humerus <p>A joint is a place where two or more bones meet</p> <p>Examples of movable joints</p> <ul style="list-style-type: none"> -Ball and socket joint -Hing joints -Gliding joint -Pivot joint <p>Gliding joints are joints which allow bones to slide over each other</p>	
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