	Cill
ANIMAL SURVIVAL	
THE NEED FOR FOOD	Transfer of the control of the contr
omnivore	A SEC TRACT AND ADDRESS OF THE PARTY OF THE
an animal which eats both plants and other animals	
思吃植物也吃其他动物的动物	
carnivore	
an animal which eats only other animals	
只吃其他动物的动物	
herbivore	
an animal which eats only plants	
旦吃村村的品好的	
incisor	
a tooth used for biting food	
用于切割食物的牙齿	
canine	
1 tooth used for gripping and tearing food	
用于排咬食物的牙色	
remolar / molar	
tooth used for grinding and chewing food	
用于咀嚼食物的牙齿	
igestion	
ne breakdown of food into small soluble molecules	
持食物分解成细小的可溶于水的分子	-
mentary canal	
ong tube that makes up the digestive system	
构成消化系统的长管	
estive juices	
symes that speed up the breakdown of food	
加速食物分解的酶	
	÷

peristalsis	(animal survival 2)
contractions of the digestive system that help to move food along 消化系统帮助食物移动而进行向收缩	
villus	
folds in the lining of the gut that help to increase the surface area位于肠胃内厚的折绝,帮助增加表面	
	`
·	

	Chin
WATER AND WASTE kidney	(animal survival 3)
organ which removes poisonous waste from the blood	
将有毒的废物从血液中排除的器官	
renal artery	
carries blood to the kidney for cleaning	<u> </u>
将血液输入肾脏加以清洗,	
renal vein	
carries cleaned blood away from the kidney	
持清洗过的血液从肾脏输出	
ureter ureter	
carries urine from the kidney to the bladder	
将尿液从肾脏输入膀胱	
bladder	
Stores urine	
贝它藏尿液	
urea	·
poisonous waste in the blood 在血液中的有毒废物	
nephron	
Tube that filters the blood	
过滤血液的管道	
lomerulus	
roup of tiny capillaries	
毛细血管组	
owman's Capsule	
e top part of a nephron	
肾单位的端部	

ADH	(animal survival 4
anti-diuretic hormone. It controls water loss and gain.	
机利尿荷尔蒙,它控制水份网得失	
杭村风何仍然,它在例外10100月分	
urine	
water, urea and other waste sunstances removed from the blood	
从血液中排除的水份.尿素和其他废物	
	· · · · · · · · · · · · · · · · · · ·
	,

REPRODUCTION IN ANIMALS	(animal survival 5)
asexual reproduction	
only one parent is involved; no sex cells are produced	
只有一方参与;没有性细胞繁殖	
sexual reproduction	
two parents are involved; sex cells are produced	<u> </u>
又又方参与;有性细胞等殖	
external fertilisation	
sperm and eggs meet outside the body	*
考于不平于在体外相遇	
internal fertilisation	
sperm and eggs meet inside the body	
精子和明子在体内相遇	
ametes	
ex cells	
中生和月包	
mbryo	
mall ball of dividing cells that develops into a baby	
分裂细胞的小斌,全发展成身体	
erm	
ale sex cell	
村里细胞	
ım / egg	
nale sex cell	
此性细胞	

	(animal survival 6)
copulation	(aminat out man o)
sexual intercourse	
1性支含	
ovaries	
produce eggs	
产生卵子	
oviduc†	
tube from the ovary to the womb; fertilisation takes place here	
从卵巢至子宫的管道,受精在此发生	
uterus	
womb	
3 B	
	•.
vagina	
allows sperm to enter the body and baby to exit 允许精子进入身体和用的	
九叶布子迎入村村不是100	
testes	
produce sperm	
产生精子	
sperm tube	
carries sperm from the testes to the urethra	
从睾丸中输送精子到尿道	
urethra	
carries sperm and urine down the penis	
新送精子和尿液到松性生殖器	
	· · · · · · · · · · · · · · · · · · ·
penis	
allows sperm to be placed in the vagina 允许精子贵入雌性生殖器内	
一个个个工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工工	

scrotum	(animal survival
sac that holds the testes	
包住睾丸的囊	
placența	
allows exchange of food, waste and gas between mother and l	<b>h</b> - <b>L</b>
使母体和胎心的支持食物,废物和分	Daby 永生.
	270
amniotic sac	
sac filled with fluid that protects the growing baby 充满液体的囊,保护贴心的生长	
一心的发中的表,你们能心的生长	
	,
	Annual to a second distribution of the second di



THE WORLD OF PLANTS	
GROWING PLANTS	
omnivore	~~~~
an animal which eats both plants and other animals . 就吃拉奶也吃过他去树的的动物	
carnivore	
an animal which only eats other animals	
吕吃其他动物的动物	
herbivore	
an animal which eats only plants	
马、吃枝物的之对物	
incisor	
a tooth used for biting food	
用于切割食物的牙齿	
canine	
tooth used for gripping and tearing food	
用于棋の交食物的牙齿	
remolar / molar	
tooth used ofr grinding and chewing food	
图于12日。寄食杨的牙齿	
igestion	
ne breakdown of food into small soluble molecules	
特食物分解微细小的可溶于水的分子	
imentary canal	
ong tube that makes up the digestive system	
构成消化系统的长管	
gestive juices	
zymes that speed up the breakdown of food 力速電粉分解的碼	

peristasis (World	d of Plants 2)
contractions of the digestive system that help to move food along	
消化系统帮助移动食物而进行的收缩	
villus	
folds in the lining of the gut that help to increase the surface area 位于肠胃内膜的纤维,帮助增加表面	
MAKING FOOD	
photosynthesis	
the process by which green plants make food 绿色木直物制造食物的过程	
chlorophyll	
the green colour found in plants; used to trap sunlight 生植物中发现的绿颜色;用于吸收阳色 stoma	
tiny hole, found on the lower surface of leaves; used in gas exchange 在时子低部表面的小孔;用于空气支接。	
×ylem	
carries water and minerals from the soil to the leaves	
从土壤输送水和矿物质到叶子	
phloem	
carries glucose from the leaves to all parts of the plant 将葡萄糖从叶子斯造到植物的品部名	
Palisade Mesophyll cells	
leaf cells where photosynthesis takes place 发生类合作目的时间到	

	Investigating Cells
LIVING CEL	<u>.L5</u>
cell	
	ake up all plants and animals
	前动植物的单位
cell wall	
tough outer l	ayer found in plant cells
社植物	的细胞中看到的和超越外层
cell membran	e
controls entry	and exit of materials from a cell
控制物	质从细胞进出
cytoplasm ·	
4	e found inside cells
在细胞	内看到的股状物质
nucleus	
controls all cel	activity .
控制的	有细胞活动
chloroplast	
reen structure	es found in plant cells, involved in making food
在植物的	明色的看到的绿色结构组织,参与制造食物
acuole	- 15-8(4)
ap-filled bag fo	ound in plant cells only
乌在植物	细胞中才看到的有汁的囊
ssue	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
specialised gro	up of cells
持多的人	
gan	
ferent tissues	combine to make organs
	田路但但新成器官

CELL DIVISION
mitosis
Cell division
细胞份裂
elongation
cells grow in length
细胞性长长度
differentiation
cells change shape to become specialised
细胞改变形状,成为独特个体
chromosome
structure that carries genetic information found inside the nucleus
在细胞核的看见的携带基因信息的结构
chromatid
one of the two strands that make up a chromosome
构成染色体的两个链的一个
centromere
holds the two chromatids together during division
在分裂中法会两个染色单体

CELLS AND ENZYMES	
catalyst	** *** *** *** *** *** *** *** *** ***
a chemical which speeds up a chemical reaction	
一种加速化学反应的化学物	
enzyme	
a biological catalyst	
一种生物催化剂	
synthesis reaction	
a building up reaction	
一种合成反应	
degradation reaction	
a breaking down reaction	
一种分角军反应	
substrate	
a substance on which an enzyme acts	
西岛在其上面作用的粉质	
product	
a substance produced by enzyme reaction	
由面面反应而产生的物质	
catalose	
breaks down hydrogen peroxide to produce water and oxygen	
分解过氧化氢而产生水和氧气	
amylase	
breaks down starch to produce maltose	
分解淀粉而产生麦芽糖	
phosphorylase	
builds up glucose-1-phosphate to produce starch	
念成葡萄糖一一二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二二	
	1

optimum temperature/pH
temperature or pH at which a reaction works best
最佳反应发生的温度和时值
respiration
the breakdown of food to release energy, carbon dioxide and water
食物分解,释放能量,二氧化碳和水
DIFFUSION
selectively permeable membrane
only allows molecules of a certain size through
马允许一定大小的名子通过
turgid
a swollen plant cell that has gained water
获得水份的膨胀植物细胞
plasmolysed
a shrivelled plant that has lost water
失去水份的枯萎植物
osmosis
movement of water molecules through a cell membrane from an area of high to low concentration
水分子从高浓度的地方到低浓度的地方通过细胞膜
no Eid
diffusion
movement of any other molecule from an area of high to low concentration
任何从高浓度到低浓度协方的其他分子运动

	C.
Inheritance	
discontinuous variation	
organisms can be put into distinct groups (eye colour, hair colour)	
可以巨分不同类别的有机体(眼睛最多,头发露色)	 \
continuous variation	, <u>-</u>
organisms cannot be put into distinct groups (height, weight)	·—-—
不可以区分不同类别的有机体(高度、体量)	
chromosome chromosome	
carries genetic variation	<del></del>
携带巷图竞体	
gene	
units that make up chromosomes	
构成染色体的单位	
allele	
form of a gene(tall or short)	
差目的一种开(式)	
lominant	
gene, which always show up in offspring. It hides the recessive	
事立后代中体现的一种基因。它隐藏像生性状。	
ecessive	
gene which only shows up if both alleles are recessive	
马有多两个同位基因都是隐惶叶才是现的一种基因	
notype	
Set of genes	
-(日茅月	
enotype	
pearance of an organism - 午有神体的針双	
1 117 TY Y W ST X W	

homozygous
having a pair of genes the same (AA or aa)
具有一对相同的基因(AA或aa)
heterozygous
having different pairs of genes (Aa)
具有-对不同的基图 (Aa)
F1
The offspring of two parents
两个亲体的压代
F2
The offspring of two F1 parents
两个下。条体的后代"
monohybrid cross
a cross of two homozygous parents, one dominant, the other recessive
两个同形徒会的杂体,一个里性,另外一个隐怀生的杂色。
chromosome mutation
chromosomes are damaged during cell division
在细胞分裂期的染色体受到损害
Down's Syndrome
a condition where human cells contain an extra chromosome
人体细胞包含一个额外染色体的情况

The Dediction	
The Body in Action  MOVEMENT	
ball and socket joint	
allows movement in all directions (shoulder)	
允许运动向各方向发生(肩)	
hinge joint	
allows movement in only one direction (finger)	
只允许运动何一个方向发生(指)	
ligament	
elastic structure that holds bones together at joints	
在关节处维系骨头的弹性结构组织	
cartilage	
acts as a shock absorber	
起减震器的作用	
ynovial membrane	
roduces synovial fluid	
分泌骨液	
endon	
on-elastic structure that attaches muscle to bone	
特肌肉附着到骨头上的非弹性结构组织	
ceps -	
收缩以弯曲胳膊的肌肉	
ceps	
scle that contracts to straighten the arm 文绪以加强陷膊的肌肉	
X 51日 1人 20 5 年月6月1年 10月11日1日	

capilliary
tiny blood vessels that join arteries and veins
连接动脉和静脉的细管
red blood cell
RBC - carries oxygen around the body
RBC-何全身输送氧气」
white blood cell
WBC - fights disease
WBC-与疾病作战
platelets
involved in clotting
参与血凝固
plasma
liquid part of blood
血液的液体部分
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	CII
THE NEED FOR ENERGY	
trachea	
windpipe	
气管	
bronchus	
tube connecting the trachea and the lung	
连接气管和肺部的管道	
bronchioles	
small branches of the bronchus	
支气管的细小分支	-
air sac	
tiny sac there has exchange takes place	
有交换发生的小毒	
atrium	
top / upper chambers of the heart	
心准的顶/上部心室	
ventricle	
bottom / lower chambers of the heart	
心脏的底/下部心室	
/alves	
structures that stop the heart flowing backwards	
阻止心脏向后漂移的结构组织	
irtery	
blood vessel that carries blood away from th heart	
从心脏输出血液的血管	
ein	
lood vessel that carries blood back to the heart	
何心脏回输血液的血管	
	!

COORDINATION
lens
focuses light on retina
在视网膜上聚光
retina
layer of light-sensitive cells in the eye
眼睛内感光细胞的膜
optic nerve
carries messages from the eye to the brain
将信息从眼睛传送到大脑
cochlea
coiled tube that changes sound vibration into nerve impulses
将声音震动转换成神经脉冲的蜗管
şemi-circular canals
control balance
控制平衡
auditory nerve
carries messages from the ear to the brain
将信息从耳朵传送到大脑
sensory nerve
carries messages from the sense organs to the CNS
将信息从感觉器官传送到中枢神经系统
motor nerve
carries messages from the CNS to muscles and glands
将信息从中枢神经系统传送到肌肉和腺
CNS
central nervous system (brain, spinal cord and nerves)
中枢神经系统(大脑,脊髓和神经)

recovery time	
time taken for pulse to return to normal an	
日本土庫大三:七八十七 一次	ter exercise
月水搏在运动后小灰复正常所	需的时间
	· · · · · · · · · · · · · · · · · · ·
— — — — — — — — — — — — — — — — — — —	
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The Biosphere	···
INVESTIGATING AN ECOSYSTEM	
abiotic factors	·
non-living factors that affect survival (temperature, pH, light intensity and rainfall)	<del></del>
影响性存的非性物因素(温度、pH值、光的强度和自	可量
piotic factors	·
iving factors that affect survival (competition, disease and availability of fo 影响性存的性物因素(竞争、疾病和食物的获得	ood)
cology	
tudy of ecosystems and the environment 住态系统和环境的研究	
ıadrant	
ed to estimate the number of plants in an ecosystem	
用于预测在一个生态系统内植物数量	
tfall trap	
ed to catch small insects at ground level 用于在地面捕捉小乱虫	
77 7 12 10 16 1 4 16 17 11 15 15 15 15 15 15 15 15 15 15 15 15	

HOW IT WORKS
ecosystem
a unit made up of living and non-living parts (community and habitat)
构成生物和非生物部分的一个单位(共生区和木西息地)
organism
a living thing
有生命的东西
habitat
place where an organism lives
有机体生活的地方
community
all the animals and plants that live in the one habitat
生活在一个栖息地的所有动物和植物
population
a group of organisms of the one species
一组周一物种的有机体
environment
surroundings
周围取境」
producer
green plant that makes its own food
自己生产食物的绿色植物
consumer
eats producers or other consumers to get energy
吃生产有机体或其他消费有机体以获得能量
competition
'fight" for scarce resources (food, light, and water)
为稀有的资源(食物, 艺和水) 布"搏斗"

organism the	it feeds on dec	nd material				
13:105-	死物质的	加上,什				
K/\\\;	(140/火湖)	月和华				
				<del></del>	<del></del>	
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