



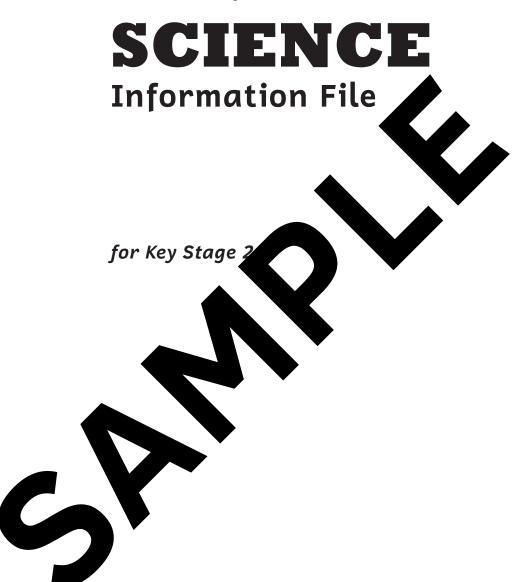
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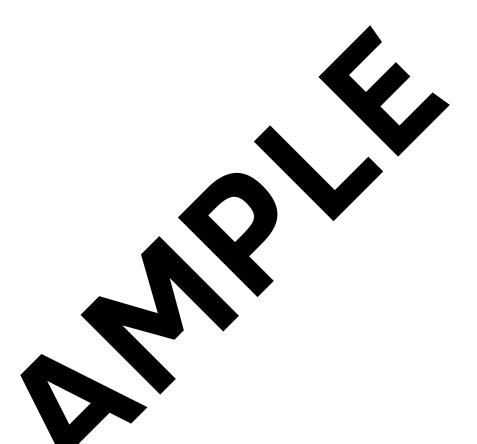
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Parent-Pupil



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Introduction

This Information File is a comprehensive revision package in Science covering all aspects of the **Science** attainment target in The Northern Ireland Curriculum for the end of Key Stage 2.

The Information File comprises:

** A comprehensive reference file detailing information that children should know for the **Science** attainment target at the end of Key Stage 2. The content,



which should be learnt, is outlined briefly it number of **NEED TO KNOW** boxes.

* A variety of review questions.





Vertebrate Factfile

M ammals	TYPE OF BODY COVERING	WARM OR COLD BLOODED	BABIES BORN LIVE OR AS EGGS
aviammats	hair / fur	warm	live (care for young - babies drink mother's milk)
Reptiles	dry scales	colu	eggs (laid on land)
Fish	ales	cold	eggs
Amphibians	damp skin	cold	eggs (laid in water)
Birds	feathers	warm	eggs

Animal Defences

Animals defend themselves in a number of ways. Some animals can use a variety of the following methods listed below to help them attack other animals or defend themselves against attack.

NEED TO KNOW

Children should be aware of how some common and familiar animals defend themselves from attack from other animals.



The methods some animals use in attack and defence:

Characteristic	Speed	Poison	Claws	Sting	Teeth	Strength	Camouflage
Animal							
Adder		1					
Elephant						1	
Lion			1		1	1	✓
Rabbit	1						
Scorpion		1					
Wasp				1			

Invertebrates — Oral Checklist



- 1 What does the word invertebrate mean?
- 2 How many legs does a spider have?
- 3 How many parts make up an insect's body?
- 4 Name 3 invertebrates which have more than 8 legs.
- 5 Name an animal which is both segmented and has no as
- 6 How many legs has an insect?
- 7 Name 3 crustaceans?
- 8 Name the stages of development in a life ycle of a butterfly. Begin with the earliest stage.
- 9 Name two 8-legged mixibeasts
- 10 Is a snail a crustacean of pollusc?
- 11 Name 3 mollus
- 12 Which one of the owing invertebrates cannot fly?
 - tadyl
- (b) woodlouse
- (c) wasp
- (d) fly
- Name 2 invertebrates which camouflage themselves through looking like the shape or the colour of their natural surroundings.
- **14** How does a scorpion kill its prey?
- 15 What does a spider use to catch its prey?
- 16 During what time of the year does a butterfly lay its eggs?
- 17 Approximately how long does an adult butterfly live?

The Human Body

Skeleton

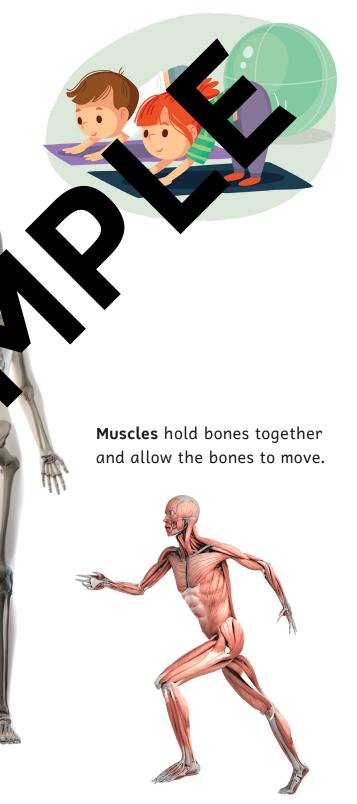
Humans have skeletons that:

- 1. Support the body
- 2. Allow the body to move
- 3. **Protect** the major organs
- 4. Provide **shape** for the body

Joints in our body help us **BEND**, **TURN** and **TWIST**.

NEED TO KNOW

Children should be aware that the body's skeleton performs 4 basic functions.



hip joi

shoulder joint

elbow joi

wristint

knee joint

ankle joint

Non-living Force Makers

(i) **Natural** Wind, tide (water), sun (solar)

NEED TO KNOW

Children may be expected to identify the energy sources in certain objects as illustrated below.

(ii) Man-made

Energy can be stored in a number of ways which allow models and machines to work.

- (a) springs
- (b) batteries
- (c) balloons (air inside)
- (d) elastic bands
- (e) machines: some use petrol, electricity r batteries a source of energy.



Car (petrol)



plane (elastic band)



Car (electricity)

Fire (wood)



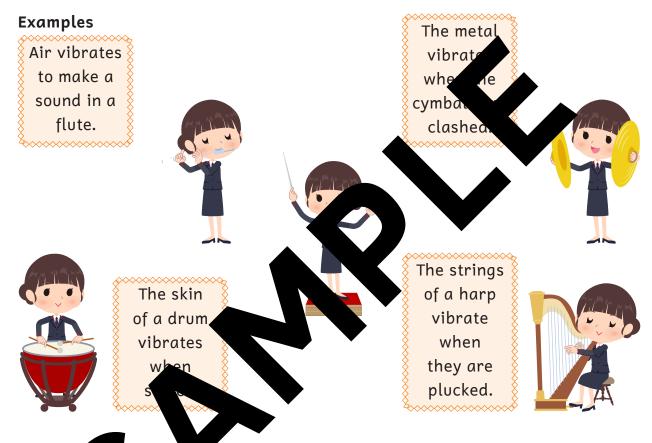
Torch (battery)



Pogo Stick (spring)

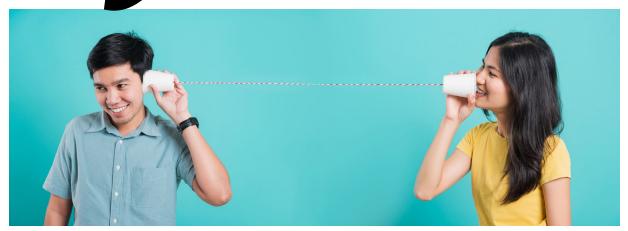
How sound is produced:

- * A **vibrating** object can produce sound, e.g. a harp string vibrates when it is plucked.
- * Other sounds are produced which cannot actually be seen, e.g. a flute being blown makes air vibrate inside the instrument, producing sound.
- * When we speak, our vocal cords vibrate.



A lister quevice

Sound on the role of a vibrating string as shown on the diagram so that someone taking to a cup can be heard by another person with their ear against a cup are e other end of the string.



Answer Key



The Body and Healthy Living page 56

- 1. touch, sight, hearing, smell, taste
- support
 allows movement
 protects major organs
 provides shape
- 3. brain
- respiratory digestive circulatory
- 5. allows turning, twisting and bending
- 6. sweet sour bitter salty
- 7. any 6 of: brain, lungs, heart, stomach, kidneys, liver, bladd
- 8. stomach
- 9. bones
- 10. pumps blood around the
- 11. stores the body's waste flux
- 12. respiratory
- 13. sends messages ound body
- 14. any 3 of thes, ealth of er tips lips, ans, soles of et (or suit les,
- 15. heart
- 16. bladder
- 17. nerves
- 18. arteries
- 19. liver
- 20. exercise, eat balanced diet, rest, wash regularly (or suitable alternative)
- 21. heart, lungs
- 22. fats
 vitamins
 carbohydrates

- protein minerals
- 23. prescribed drugs
- 24. ecstasy, cocaine, glue, nonprescribed drugs (or suitable alternatives)
- 25. helps the body grow and repair itself
- 26. fish
 egg
 lean meat
 che
 (or su. le alter atives)
- 27 hohya extramins
- . kee the boy healthy
- fr
 - getables
- Q. in ases it
- sleep
- 32. gives the body energy
- 33. potatoespastaricebread(or suitable alternatives)
- 34. veins
- 35. eating
- 36. gives the body warmth and energy
- 37. fatty meat milk cheese cooking oils (or suitable alternative)
- 38. fats/sugar
- 39. digestive
- 40. kidney

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