Tutorial 1: measurement

Activity one

THE WORD WEB - SUFFIXES

■ As we have seen in the Key points, suffixes can be used to transform adjectives into nouns and verbs. Complete the columns using the suffixes: -ment - -th - ness - -en • Ø.

Adjectives	Nouns	Verbs	
1. The road is not wide enough.	The main problem is the of the road.	Why don't theythe road?	
We need better mea- suring techniques.	All thewere wrong.	We require techniques to more accurately.	
A lack of vitamins can have wide-ranging effects.	The of potential diseases is considerable.	Lack of vitamins causes illnesses whichfrom goitre to anaemia.	
Adjectives	Nouns	Verbs	
 Cotton is a textile with short fibres. 	It is cheap because of the of the fibres.	Genetically modified cotton can the growing season.	
 There is a weak attractive force bet- ween the molecules. 	Because of the of attraction, the molecule can be separated.	9	
6. The deluxe model is well- equipped .	The car has got first class	It has beenwith the latest gadgets.	
When the eye becomes red, it is a symptom of bacterial infection.	of the eye is symptom of conjunctivitis.		
8. Howis a horse?	The of a horse can attain roughly 1,000 kg		

Activity two:

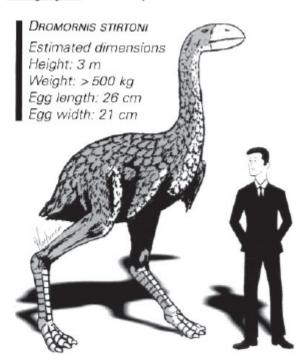
DEAD DUCKS FROM DOWN UNDER²

Words mentioned in the Key points are written in bold.

Replace the words which are in **bold** and <u>underlined</u> by synonyms, antonyms or by an explanation.

Dromornis stirtoni, an extinct flightless bird, lived in Australia **roughly** 8 million years ago. It was probably the heaviest bird in the history of evolution, with a **weight** of **slightly more** than 500 kg although its **wing span** was very small. A considerable

amount of information has been obtained from recent fossil finds in Queensland, enabling scientists to work out basic measurements. From a morphological point of view, Dromornis stirtoni appears to be similar to an emu or an ostrich, however, scientists now believe that it is related to the duck species, as the massive dimensions of the head show. The bird attained a height of over 3 meters. The large head and formidable beak³ suggest that the bird was carnivorous. The cross-section of fossils of the leg bones reveals that the bird had **short**, **thick** leas indicating that it could not have run as fast as the ostrich. The width of the body was about the same as the length of the neck and legs.



- Why couldn't dromornis stirtoni fly?
- · Why do we know so much about the bird?
- How do we know it is not the same species as an ostrich?
- · What makes it possible for an ostrich to run so fast?

Activity three:

Asking questions: are you sure you **never** make a mistake?

- Write a question about the words in bold.
- It became extinct about 8 million years ago.
- An emu weighs slightly more than 50 kg.
- Specialists examined the bones.
- An ostrich runs very fast.

Activity four:

Fetal development



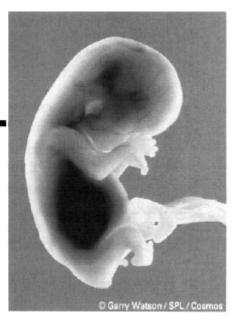
7th week the hand begins to form



The fetus – 11th week Mean measurements

Length: ≈ 6.9 cm Weight: = 28-35 gm Head circumference: ≈ 8.1 cm Volume amniotic fluid: ≈ 60 ml

The fetus is now becoming more human. The head is still disproportionately big, but the vital organs – liver, intestines and brain – function and the genitalia are visible. The heartbeat can be heard with a stethoscope and the legs are beginning to move. The fetus floats in the amniotic fluid and nutrients are supplied via the arteries in the umbilical cord. Tiny blood vessels can be seen through the translucent skin.



A.	Describe the pictures using the following words.					
1.	average (+ almost)					
2.	to range (+ weight)					
3.	circumference (+ slightly over)					
4.	volume (+ roughly)					
		• • • • • •				
5.	. odd (+ each hand)					
_						
6.	width (+ what?)					
_						
/.	narrow (+ arteries)					
0						
ο.	monitor (+ heartbeat)					
9	thin (+ skin)					
٥.	umi (+ Skii)					
В.	. Here are some answers to FAQs (Frequently Asked Questions) concerning the fetus. Write the corresponding questions.					
1.	It usually begins to beat in week 5-7.	 →	At what stage			
_	The fate and its and i					
۷.	The fetus monitors its own temperature from 30 weeks onwards.	-	When			
3.	No they don't. The fetus of the male weighs more than that of the female.	→	Do			
			to colo laboratoria.			
4.	This happens at about 30 weeks (it can be checked by moving a light across					
			In which week			
	be checked by moving a light across the skin of the mother's abdomen. The					
	be checked by moving a light across					
<i>C</i> .	be checked by moving a light across the skin of the mother's abdomen. The	word				
	be checked by moving a light across the skin of the mother's abdomen. The fetus moves its head towards the light).		s.			
	be checked by moving a light across the skin of the mother's abdomen. The fetus moves its head towards the light). Make sentences using the following was		s.			
1.	be checked by moving a light across the skin of the mother's abdomen. The fetus moves its head towards the light). Make sentences using the following was harden / bones / begin / 13 th week		s,			
1.	be checked by moving a light across the skin of the mother's abdomen. The fetus moves its head towards the light). Make sentences using the following what harden / bones / begin / 13 th week	bly	s,			
1. 2.	be checked by moving a light across the skin of the mother's abdomen. The fetus moves its head towards the light). Make sentences using the following wharden / bones / begin / 13 th week lengthen / femur / 4 th week / considerations.	bly	s,			

Activity five:

Self evaluation - exit test

ı	Complete the sentences by filling in the blanks with an appropriate word.
1.	Between 2005 and 2025, the average world death rate is expected to decline only si (a little, by a small amount)
2.	The biosphere refers to the th layer surrounding the Earth where living organisms are found. (small transversal dimension, ≠ thick)
3.	The original estimation of the cost of building the Three Gorges Dam in China was extremely in (imprecise)
4.	A chain reaction is a series of reactions in which the result of each st causes the next. (step, part of the process)
5.	If you add two odd numbers together, you get an ev number. (the opposite of odd)
ô.	The Arctic Ocean is joined to the Pacific Ocean by the Bering Strait, a narrow and sh channel with a depth of no more than 55 m. (≠ deep)
7.	Satellite photographs provide valuable information about the ex of desertification. (degree)
3.	All over the world, research centres are closely mo pollution levels. (following the evolution)
€.	In Greenland and Iceland there are a variety of small-sc manufacturing industries. (size, dimension)
10.	Bacteria can acquire resistance to antibiotics by mutations which may st their resistance. (make stronger)