

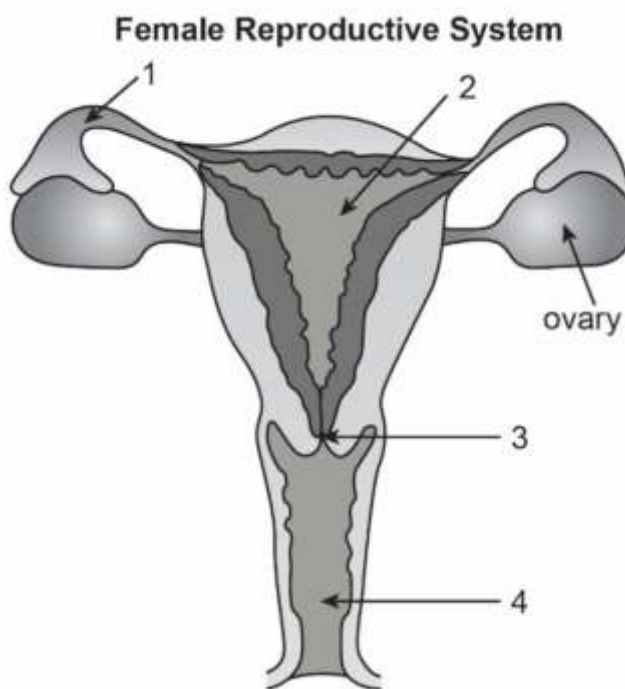
Curriculum Aligned Competency Based Test Items

Science

Class 8 – Chapter 9

Reproduction in Animals

The picture shows the relative size of different types of cells between 100 nm and 100 mm.



SAS21S080901

- 1 A mature egg and a sperm unite to form a zygote.
In which part of the female reproductive system does a zygote form?

- A. 1
- B. 2
- C. 3
- D. 4

SAS21S080902

2 How many eggs are usually released each month by the ovary of a woman?

- A. One
- B. Two
- C. Fourteen
- D. Twenty-four

SAS21S080903

3 In which part of the female reproductive system does an embryo implant?

- A. 1
- B. 2
- C. 3
- D. 4

SAS21S080904

4 Which of these statements is true about a **foetus**?

Circle 'Yes' or 'No' for the correct response.

Is this statement true about a foetus?	Yes or No
All body parts can be identified properly.	Yes/No
It is covered by a hard shell of protective layers.	Yes/No
It resembles a large ball made of millions of cells.	Yes/No

SAS21S080905

5 Where does the fertilisation of egg occur in the process of **In Vitro Fertilisation (IVF)**?

- A. Ovary
- B. Water
- C. Uterus
- D. Petri dish

The table shows the processes of external fertilisation and internal fertilisation.

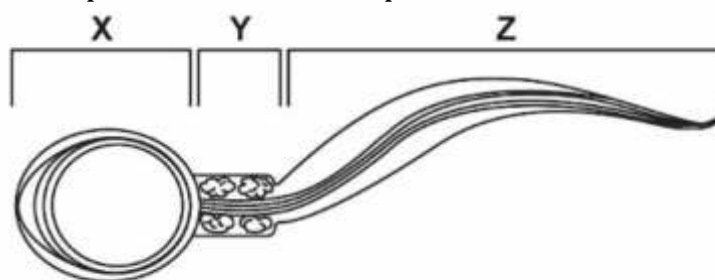
External fertilisation	Internal fertilisation
The female releases the eggs (ova) outside its body. The male releases the sperms on the eggs. Fertilisation takes place outside the female body.	The male releases the sperms inside the body of the female. Fertilisation takes place inside the female body.

SAS21S080906

6 Which of these is true about external fertilization and internal fertilization?

	External fertilization	Internal fertilization
A.	Both parents are necessary	Both parents are necessary
B.	Embryo is not formed	Embryo is formed
C.	Involves development of eggshell	Involves development of eggshell
D.	Takes place among invertebrates	Takes place among vertebrates

The picture shows the basic parts of a salmon fish sperm.



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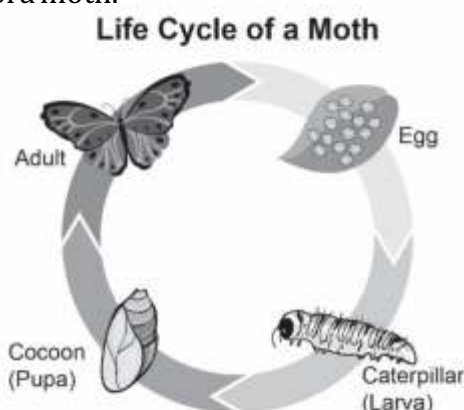
7 Which part of the sperm helps it to swim in water and reach the egg?

SAS21S080908

8 Which of these animals reproduce by external fertilization?

- A. Snake
- B. Frog
- C. Horse
- D. Elephant

The picture shows the life cycle of a moth.

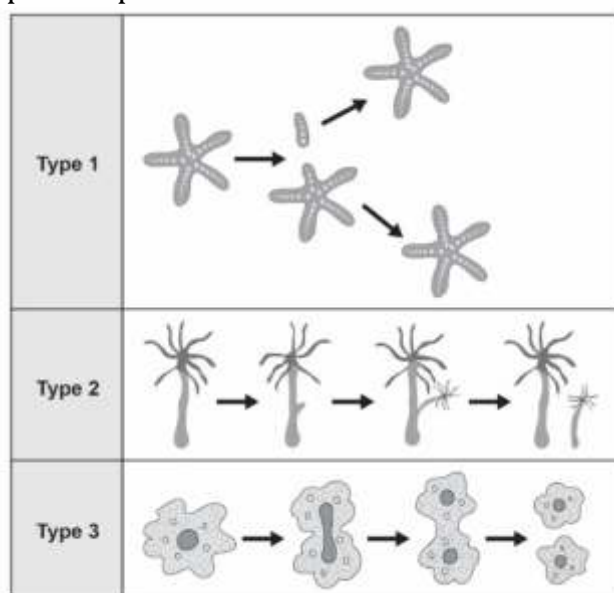


SAS21S080909

- 9 What can be concluded from the picture?
Circle 'Yes' or 'No' for the correct response.

Can this be concluded from the picture?	Yes or No
Moth is an oviparous animal.	Yes/No
A moth looks different in each stage of its life cycle.	Yes/No
There are two different stages in the life cycle of a moth.	Yes/No

The pictures show three types of reproduction in animals.



SAS21S080910

- 10 Which of these statements is true?

- Type 1 reproduction is called binary fission.
- Type 2 reproduction produces two non-identical offspring.
- Type 3 reproduction involves unequal distribution of genetic materials.
- Types 1, 2 and 3 methods of reproduction involve single parent only.

Answers

Science
Class 8 – Chapter 9

Item Number	
Question Code	SAS21S080901
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Female Reproductive Organs in Humans
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	A. 1
No Credit (No Score)	Any other response or missing response

Item Number	Question 2
Question Code	SAS21S080902
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Female Reproductive Organs in Humans
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	A. One
No Credit (No Score)	Any other response or missing response

Item Number	Question 3
Question Code	SAS21S080903
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Female Reproductive Organs in Humans
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	B. 2
No Credit (No Score)	Any other response or missing response

Item Number	Question 4
Question Code	SAS21S080904
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Development of Embryo
Competency	Explaining Phenomena Scientifically
Item Type	Complex Multiple Choice Question
Full Credit (Full Score)	Yes No No
No Credit (No Score)	Any other response or missing response

Item Number	Question 5
Question Code	SAS21S080905
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Fertilisation
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	D. Petri dish
No Credit (No Score)	Any other response or missing response

Item Number	Question 6
Question Code	SAS21S080906
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Fertilisation
Competency	Interpreting Data And Evidence Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	A. Both parents are necessary /both parents are necessary
No Credit (No Score)	Any other response or missing response

Item Number	Question 7
Question Code	SAS21S080907
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Structure of Sperm
Competency	Explaining Phenomena Scientifically
Item Type	Constructed Response
Full Credit (Full Score)	Mentions part Z as the response.
No Credit (No Score)	Any other response or missing response

Item Number	Question 8
Question Code	SAS21S080904
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Fertilisation
Competency	Explaining Phenomena Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	B. Frog
No Credit (No Score)	Any other response or missing response

Item Number	Question 9
Question Code	SAS21S080909
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Metamorphosis
Competency	Interpreting Data and Evidence Scientifically
Item Type	Complex Multiple Choice Question
Full Credit (Full Score)	Yes Yes No
No Credit (No Score)	Any other response or missing response

Item Number	Question 10
Question Code	SAS21S080910
Grade & Unit Name	Grade 8 Reproduction in Animals
Concept Sub-concept	Life Sciences Asexual Reproduction
Competency	Interpreting Data and Evidence Scientifically
Item Type	Multiple Choice Question
Full Credit (Full Score)	D. Types 1, 2 and 3 methods of reproduction involve single parent only.
No Credit (No Score)	Any other response or missing response