

Project BioEYES Advanced Level Pre-Evaluation

Student Number

Please follow the directions on the survey. Fill in the entire circle that corresponds to your answer and erase marks completely to make a change. You may use pen or pencil.

Answer Selection: Correct = ● Incorrect = ✕ ✓ ⊖

Teacher _____

Section _____

Gender

Male ☐

Female ☐

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0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

1. Typically, how are fish born?

- (A) From an internally fertilized egg
- (B) From an externally fertilized egg
- (C) From budding
- (D) From asexual reproduction

2. For a recessive gene to be expressed, an organism needs:

- (A) Only one copy of the recessive gene
- (B) Two copies of the recessive gene
- (C) One dominant and one recessive gene
- (D) None of the above

3. Which is *NOT* a characteristic of an ideal model organism?

- (A) They have DNA
- (B) They live for many years
- (C) They produce many offspring quickly
- (D) They are small and simple

4. The part of Scientific Inquiry where you state a possible explanation for a specific question is the

- (A) Conclusion
- (B) Hypothesis
- (C) Observation
- (D) Research Question

5. Somites give rise to:

- (A) Skin, muscle, and bone
- (B) Skin and organs
- (C) Muscles and skin only
- (D) Bone only

6. Who is known as “The Father of Genetics” and what was his model organism?

- (A) Louis Pasteur and cows
- (B) Isaac Newton and apples
- (C) Gregor Mendel and pea plants
- (D) James Watson and fruit flies

7. Unspecialized cells that can multiply repeatedly and potentially develop into many types of cells, such as heart, skin, liver etc. are called:

- (A) Cancer cells
- (B) Stem cells
- (C) Dominant cells
- (D) Heart cells

8. Which Punnett square shows a 3:1 ratio of offspring inheriting a dominant trait?”

- (A)

	A	A
A	AA	AA
a	Aa	Aa
- (B)

	A	a
A	AA	Aa
a	Aa	aa
- (C)

	a	a
a	aa	aa
a	aa	aa
- (D)

	Ab	Ab
Ab	AAbb	AAbb
Ab	AAbb	AAbb



Please turn over and answer questions on the back



Please read each statement carefully and fill in the number that indicates how much you AGREE or DISAGREE with that statement. Please fill in ONLY ONE number for each statement.

	Strongly Disagree	Disagree	Neither	Agree	Strongly Agree
Science is interesting	①	②	③	④	⑤
Science is necessary to help us understand the world around us	①	②	③	④	⑤
Men are better at science than women	①	②	③	④	⑤
I know what it's like to be a scientist.	①	②	③	④	⑤
Everyone should know a little bit about science	①	②	③	④	⑤
Scientific discoveries have an impact on our health	①	②	③	④	⑤
I would be interested in learning about different types of careers in science	①	②	③	④	⑤
Ordinary people can be scientists	①	②	③	④	⑤
Science is becoming more popular than it used to be	①	②	③	④	⑤
Scientific research is important	①	②	③	④	⑤
I can imagine myself as a scientist	①	②	③	④	⑤

Do Not Mark

