High Tunstall College of Science Curriculum Intent

Subject: Biology Year: 11

<u>Thread 5— Inheritance, Variation & Evolution</u>



| | Thread 5 | | Progress | | | |
|--------------------------|--|--|-----------|------|---|---|
| Торіс | Key ideas | Key ideas | | R | Α | G |
| Inheritance | I can explain how features | s are inherited | | | | |
| Variation & Evolution | I can use punnet squares t | o predict the inheritance of features | | | | |
| | I can explain the process of | I can explain the process of meiosis | | | | |
| | I can explain the process o | f selective breeding | | | | |
| | I can explain the process a | nd uses of genetic engineering | | | | |
| | I can explain the process o | f cloning in animals and plants | | | | |
| | I can evaluate the process of | of animal and plant cloning | | | | |
| | I can explain the process o | f evolution and extinction | | | | |
| | I can explain how bacteria | become resistant to antibiotics | | | | |
| | I can explain | | | | | |
| Lesson | Learning Focus | Assessment | Key Words | | | |
| 1 | How are features inherited ? | Describe the function of alleles in inher- itance | | | | |
| 2 | Predict how features are inherited using family tress and genetic dia- grams | Use a range of genetic diagrams to pre- dict inherited characteristics | Carrier | | | |
| 3 | How do we use genetic engineering in science ? | Explain the process and uses of genetic engineering | | | | |
| 4 | How do we use selective breeding? | Explain the process of selective breeding in plants and animals | | | | |
| 5 | How do we use the process of clon- ing ? | Compare and contrast the process of adult cell cloning and embryonic cloning | Surrog | gate | | |

Explain the process of bacteria resistance

Explain the theory of natural selection

Explain speciation linked to real life con-

and evaluate theories of extinction.

texts

Mutation

Speciation

6

7

8

How do bacteria become resistant

What's the difference between

evolution and extinction ?

What is speciation?

to antibiotics ?