**Lesson Title: Genetic Transfer**

**Unit: 4**

TEKS: 130.7 (C)(7)(f)

OBJECTIVES

The student shall be able to:

1. Investigate genetic selection methods.
2. Develop a logical argument for cloning.
3. Distinguish between embryonic cloning and nuclear transfer.

TEACHING MATERIALS, TOOLS, AND EQUIPMENT

PPT: Genetic Selection and Transfer

Video: How they cloned Dolly

HO: Genetics Crossword

TEACHING PROCEDURE

|  |  |
| --- | --- |
| Interest Approach/Anticipatory Set | Teacher Notes |
| 1. Link – review previous material over genetics and how those traits are passed down.2. Motivation – What would it be like if you had an exact copy of yourself?Present the PPT over Genetic Selection and TransferShow video “How they cloned Dolly” on Slide 17Have student complete Genetics Crossword |  |

|  |  |
| --- | --- |
| Teaching Plan and Strategy / Presentation of New Material | Teacher Notes |
| Objective 1: Investigate genetic selection methods* Go through the power point

Objective 2: Develop a logical argument for cloning* Have students write down positive and negative reasons for cloning

Objective 3: Distinguish between embryonic cloning and nuclear transfer* Have students write down differences between embryonic cloning and nuclear transfer

Activity:* Crossword puzzle
 | Power point over history.  |

ENGAGEMENT

 Students will be actively participating in lesson by writing positive and negative reasons for cloning while also writing down the differences between embryonic cloning and nuclear transfer. After they have completed that there is a crossword activity.

EVALUATION

Written work and completion of crossword puzzle

ADDITIONAL MATERIALS

N/A

©Texas Education Agency, 2011