

Equines in Estrus

WebQuest Description: Learning outcomes of this webquest 1.) Students will learn the main phases of the Estrous cycle. 2.) They will be able to identify what hormones dominate each phase. 3.) Finally student will learn the gestation lengths for different animals.

Grade Level: 9-12

Curriculum: Science

Keywords: Estrous Cycle, Animal Reproduction, Gestation, Follicular, Luteal

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Introduction

A local equine breeder is in need of our help!! He has four different mares all in different phases of their estrous cycles. Based on each of the mares last ovulation date we need to map out the mares estrous cycles and determine which day he should inseminate each horse. In order to map out the cycles we first need to know the length of one complete cycle, how many days she spends in each phase, and at which point, in what phase is optimal for breeding. Good Luck!!!

Tasks

It is your job to learn the length of an estrous cycle, the different phases, and what happens in each phase. Then identify what phase of the estrous cycle each mare is in and how many days until she should be bred.

Process

Step One: On your own complete the worksheet attached below using the different internet resources. Step Two: Draw an estrous cycle diagram.Step Three: Plot with a single point for each mare where she is at on the estrous cycle diagram. Step Four: Write out how many days until each of the mares ovulation.

Evaluation

Equines in Estrus Point ValuePoints Earned Worksheet30Plotted Estrous Diagram30Days Until Ovulation40

| Category and Score | Equines in Estrus | Point Value | Points Earned | | Score |
|--------------------|-------------------------|-------------|---------------|-------------|-------|
| | Worksheet | 30 | | | |
| | Plotted Estrous Diagram | 30 | | | |
| | Days until Ovulation | 40 | | | |
| | | | | | |
| | | | | Total Score | |

Conclusion

After completion of this assignment you will have a better understanding of the estrous cycle, when the appropriate time to inseminate is, and how to track when to inseminate different horses in different phases.

Teacher Page

Included Content This webquest is designed to educate students on the equine estrous cycle. Students will be able to identify each phase of the estrous cycle. Students will be able to identify the characteristics of each phase and which is the optimal time to breed a horse. This webquest assignment can be completed in one 50 minute class period.

Standards

D4.1 Illustrate animal conception, including estrus cycles, ovulation, and insemination.

Credits

Other

Technology Required: Internet Access One Computer per student