Name:_____
Blk:____Date:_____

Science 9
Notes on Sexual Reproduction

Sexual reproduction brings non-identical gametes together to form new organism - it occurs in ____ stages:
1. _____ - the process by which gametes are bought together at same place and same time
2. _____ - process by which egg and sperm join to form a new organism
3. _____ - the process by which an organism develops as an embryo

Two Methods of Fertilization:
1. _____
2. _____
In order for either of these methods to produce a successfully developing embryo, certain conditions must be met:

- Embryo must have enough _____.
- _____ must not be too cold or too hot.
- There must be enough _____ so that embryo does not dry out.
- Embryo must be _____ from predators and items in environment that can potentially harm it.

External Fertilization:
In external fertilization, sperm and egg join outside parents

Advantages:
Very little _____ required to mate
Large numbers of _____ produced
Offspring can be spread widely in the environment
->_____ _____ between each other and parents

Disadvantages:
Many gametes will not _____
Many eggs will not be _____
Offspring are often not _____ by parents, so many of them die

Internal Fertilization:
In internal fertilization, sperm and egg join _____ parents, embryo is nourished inside _____

Advantages:
Embryo _____ from predators
Offspring more likely to survive, as many species will _____ them while they mature

Disadvantages:
Much more _____ required to find mate
_____ zygotes produced, resulting in less offspring
More _____required to raise and care for offspring

Pollination:
Most plants transfer male gametes as _____. Pollen can be carried by wind or other organisms.