

**PHIL 340  
PHILOSOPHY OF SCIENCE  
DDE**

**LECTURE FIVE –  
REVIEW OF  
NATURAL  
SELECTION**

**SUBSTRATE  
NEUTRALITY**

**UNDERLYING  
MINDLESSNESS**

**ALGORITHMIC  
PROCESSES**

**GUARANTEED  
RESULTS**

**“FOOLPROOF  
RECIPE”**

**LONG DIVISION**

**COIN FLIPPING  
ELIMINATION  
TOURNAMENT**

**EXAMPLES**

**GETS YOU A  
GUARANTEED  
.000977 CHANCE  
RUN OF 10  
STRAIGHT WINS**

**NATURAL  
SELECTION**

**FACT 1:  
EXPONENTIAL  
FECUNDITY OF ALL  
SPECIES**

**FACT 2:  
POPULATIONS  
REMAIN STABLE**

**NATURAL  
SELECTION**

**FACT 3:  
LIMITED NATURAL  
RESOURCES**

**ALGORITHM RESULT 1:  
STRUGGLE FOR  
EXISTENCE – MORE  
WILL BE BORN THAN  
WILL REPRODUCE**

