

# NPFL006 Introduction to Formal Linguistics - Homework 3

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1.
  1. If the lexical function  $S_0$  specifies for the verb *to produce* the noun *production*, for the verbs *to sell*, *to print*, *to teach* it specifies the following nouns (respectively):  
(c) *sale*, *print*, *teaching*
  2. If the lexical function  $Oper_2$  specifies for the noun *kiss* the verb *to receive*, for the nouns *complaint*, *exam*, *operation* it specifies the following verbs (respectively):  
(b) *to face*, *to take*, *to undergo*
2. Observe the lexical functions proposed below. Based on the working definition and examples, write four more examples for each of the functions:
  1.  $Sound(cow) = to\ moo$   
 $Sound(bell) = to\ ding$   
 $Sound(fire) = to\ roar$   
 $Sound(trumpet) = to\ toot$
  2.  $Loc(teacher) = school$   
 $Loc(nurse) = hospital$   
 $Loc(rower) = river$   
 $Loc(camel) = desert$
  3.  $Disc(dinosaurs) = palaeontology$   
 $Disc(sounds) = phonetics$   
 $Disc(flags) = vexillology$   
 $Disc(stamps) = philately$
3. Observe lexical units, morphological features, and syntactic relations in the sentence below. Following up the concept of lexical functions in MTT, make your own proposal of four lexical functions. Explain the proposed functions, and for each of them, give one example from the sentence and two own examples.
  1. *Purpose*: a typical role or purpose of an entity, object, etc.  
 $Purpose(universities) = to\ teach$   
 $Purpose(government) = to\ govern$   
 $Purpose(microphone) = to\ record\ sound$
  2. *Fig*: figurative metaphor to evoke war-like imagery  
 $Fig(poverty) = to\ fight\ \_$

*Fig(climate change) = to tackle \_*  
*Fig(cancer) = to beat \_*

3. *Fresh*: indicating an approach that has not been taken before

*Fresh(tools) = innovative*  
*Fresh(ideas) = new*  
*Fresh(methods) = original*

4. *Spec*: indicating a specifier or specific type

*Spec(training) = vocational*  
*Spec(surgeon) = heart*  
*Spec(book) = fiction*