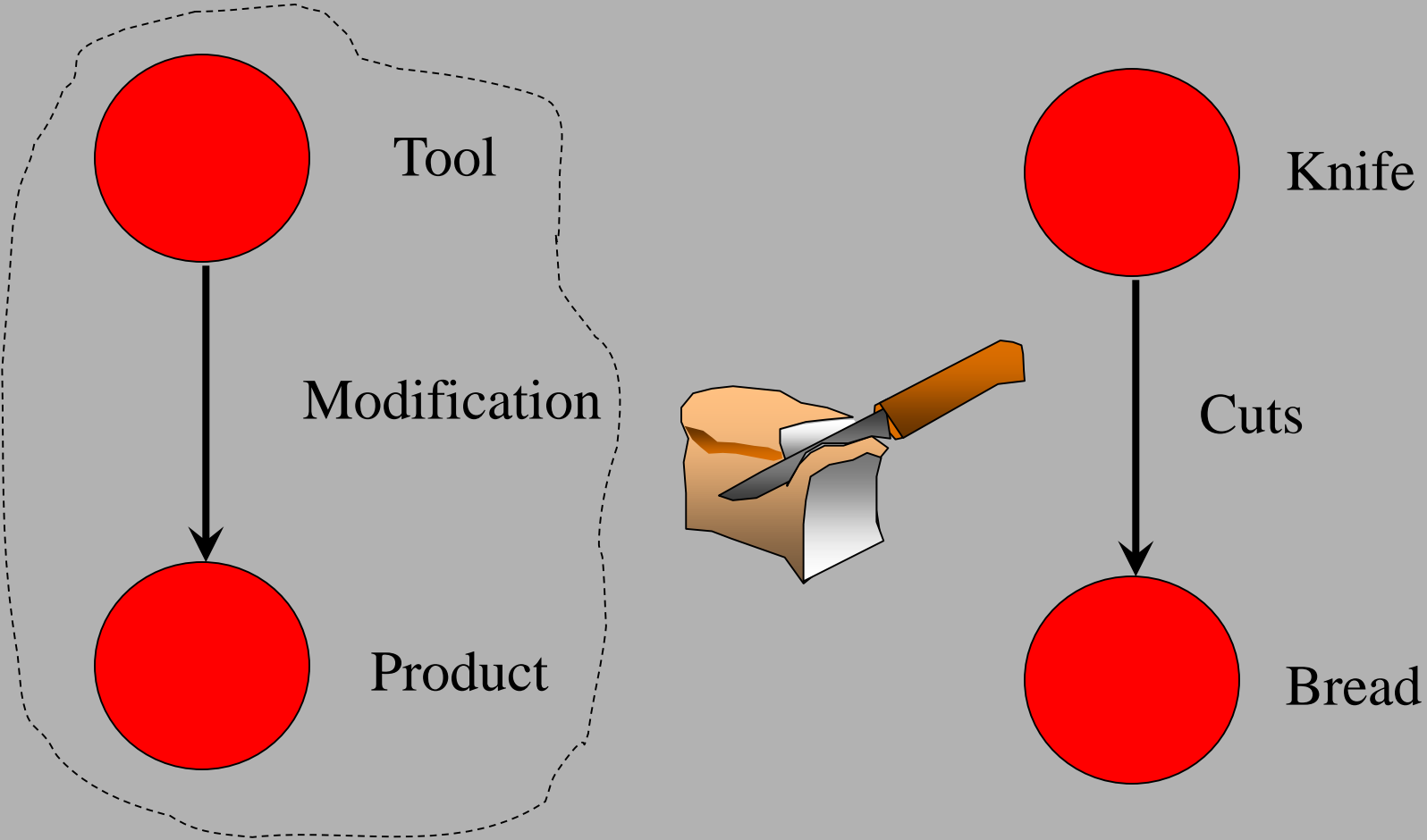


# How to Write a Function

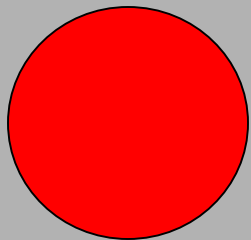
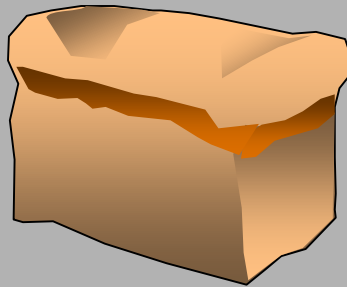
# Function

= Product + Modification + Tool

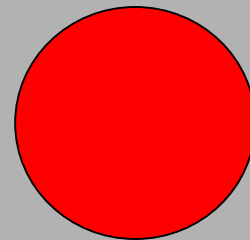


# Product

= **Material object** that *gets modified*



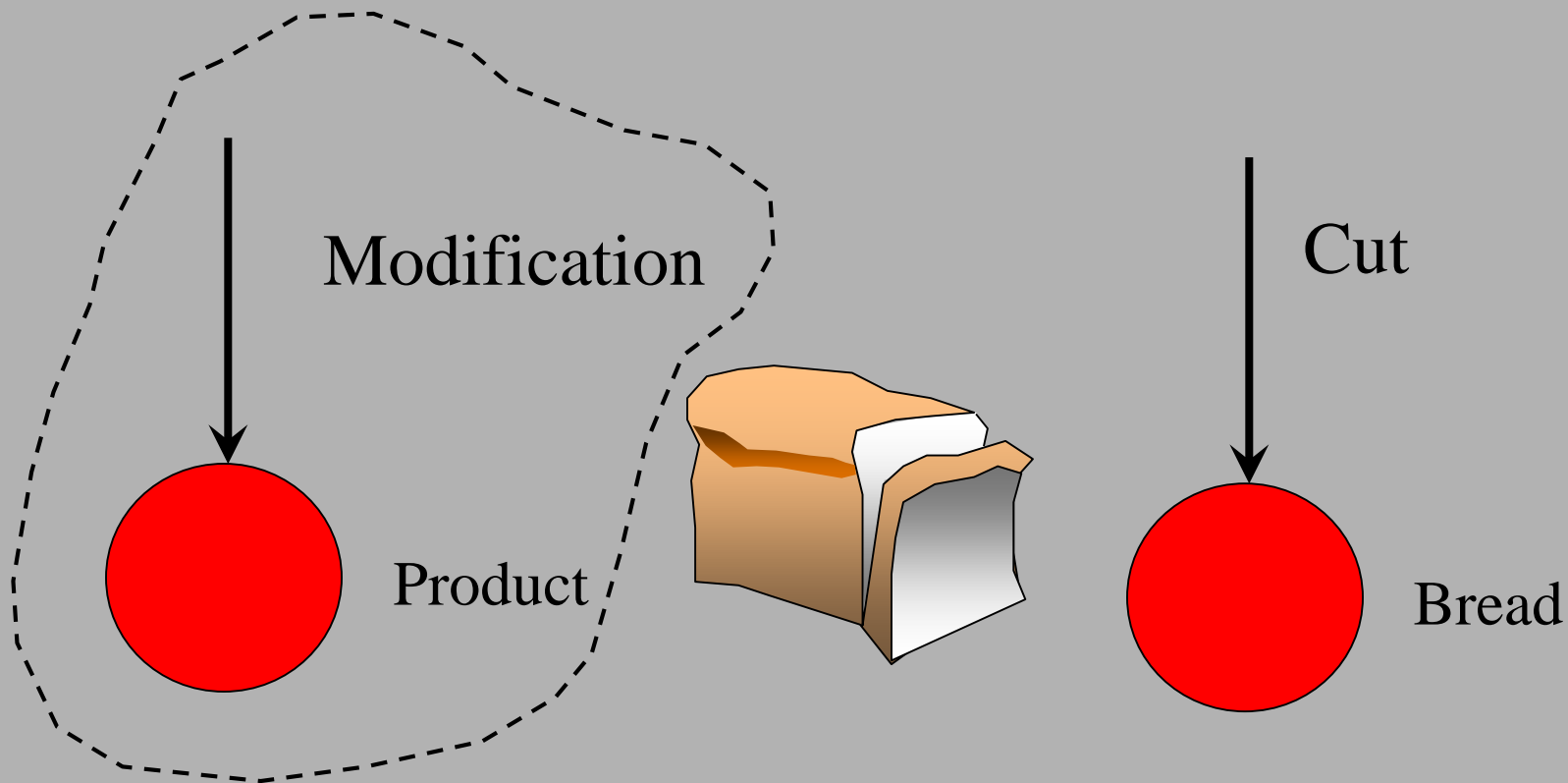
Substance Element  
“Product”



Bread

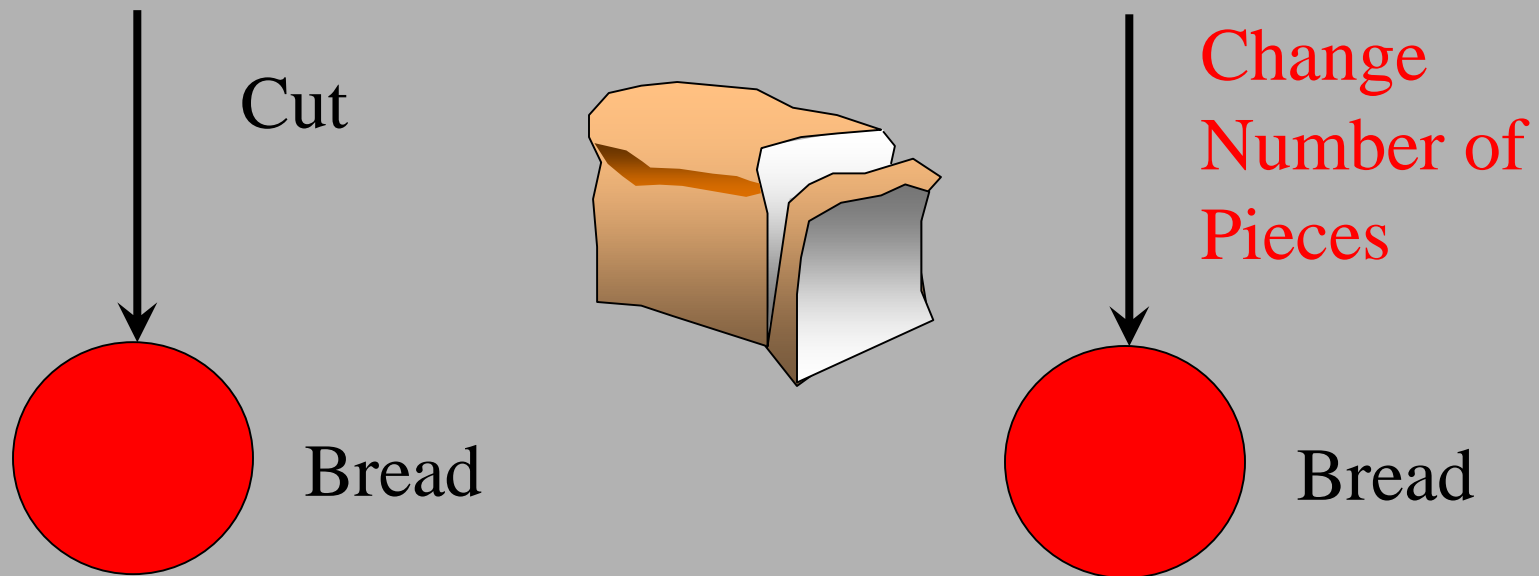
# Modification (Shorthand Verb)

= Change or control a feature of the product



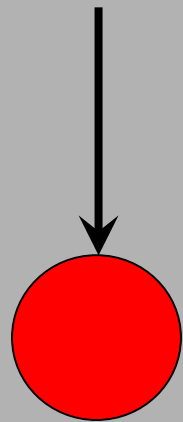
# Modification (Longhand form)

= Change or control a Feature of the product



# Modification Exercise

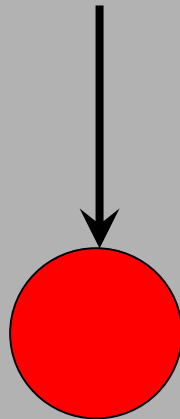
Restate the modifications in  
longhand



**Water**

**Vaporize**

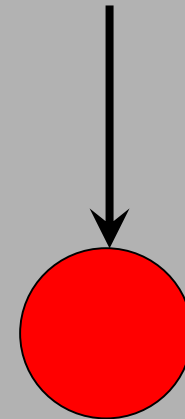
= Change  
Energy or  
degree of  
separation  
of the  
molecules



**Screw**

**Turn**

= Change  
Angular  
Position and  
depth of  
penetration



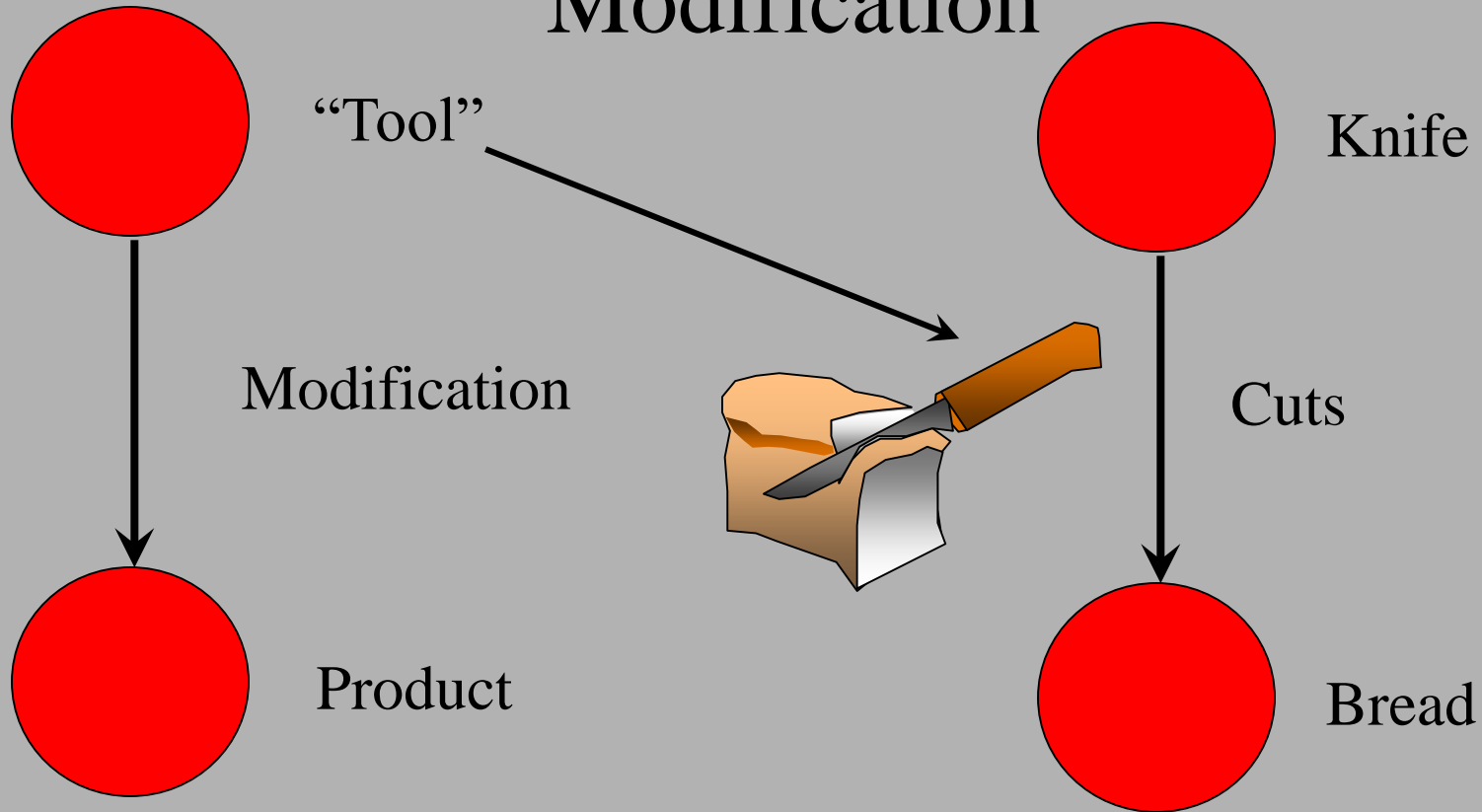
**Argon**

**Heat**

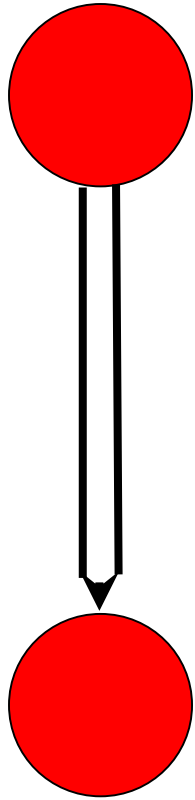
= Change  
Temperature

# Tool

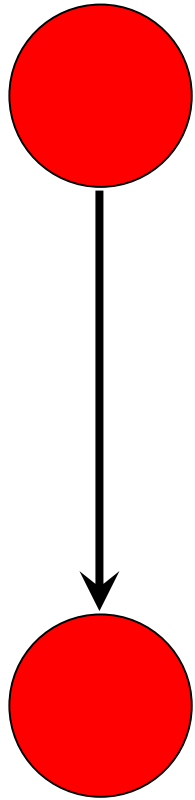
= Material Object which delivers the  
Modification



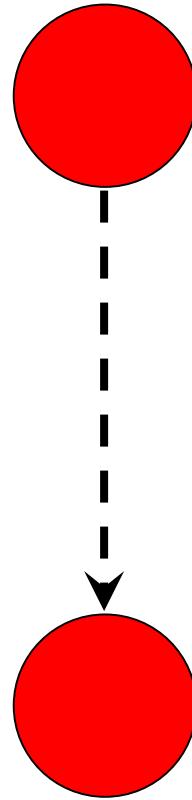
# Types of Functions



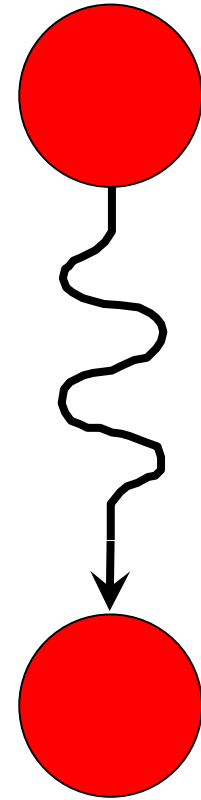
**Excessive**



**Useful**



**Useful  
but Flawed**

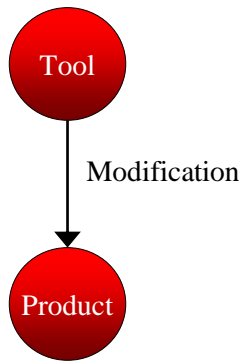


**Harmful**

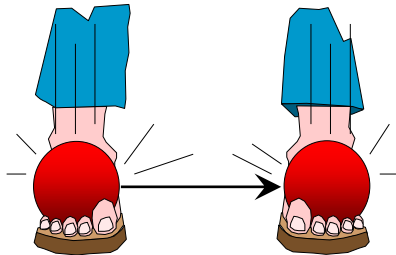


# Tests for Correctly Written Functions

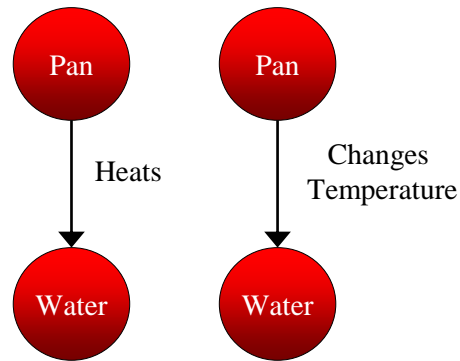
1. Are all of the Parts Present?



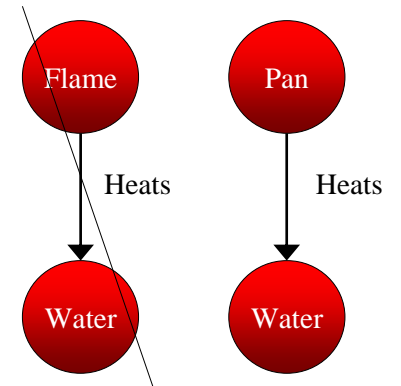
2. Are the tool and product something you could drop on your foot?  
Physical or virtual Objects



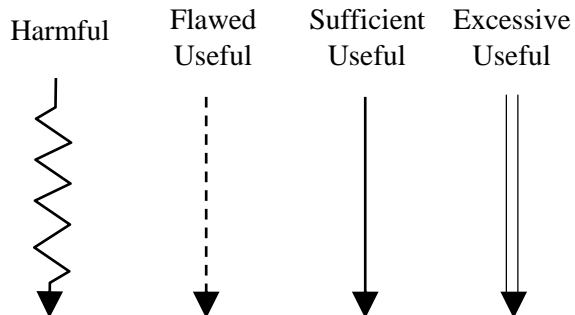
3. Does the modification describe physical change or control of the product?  
Use longhand (changes . . . Or Controls . . .) if confused.



4. Does the tool directly modify the product?



5. Is the correct function symbol used?



6. Does it describe what is really happening?  
Be Careful with Confusing Functions

