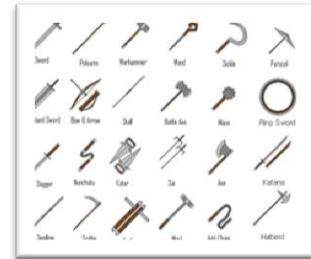Name: _____   Class: _____

HOW TO SLAY A DRAGON

Purpose:

The purpose of this experiment is to determine the most efficient type of weapon to use to slay a dragon

Equipment:

- 10 dragons
- 20 knights
- battle arena

- stopwatch
- a variety of medieval weaponry (see data)

Hypothesis:

After reading the procedure, I think the use of _____ (choose from sharp, blunt, or airborne) weapons will most efficiently slay a dragon.

Procedure:

1. Release a dragon into the battle arena.
2. Provide the knight with a weapon (none for control).
3. Let the knight into the battle arena to attempt to slay the dragon and start the timer.
4. If the knight is "no longer able to participate" let another knight into the arena.
5. Continue providing knights, one at a time, until the dragon has been slain.
6. Stop the timer.
7. Repeat with the remaining weapons.

Note: There are several safety precautions to consider:
- Knights should wear chainmail armor and metal helmets.
- Dragons breathe fire; long hair should be tied back.
- Many of the weapons have sharp edges; caution should be taken while handling them.

Variables:

Please indicate the variables from the experiment:

Independent Variable: _____

Dependent Variable: _____

Constant Conditions: _____

Observations:

Category of Weapon	Weapon	Time to Slay Dragon
None	None	
Sharp	Sword	
	Sickle	
	Katar	
Blunt	Mace	
	Warhammer	
	Maul	
Airborne	Arrow	
	Trubechet	
	Spear	

Written observations:

_____

_____

_____

Discussion:

On a separate piece of paper answer the following questions:

1. Were there any sources of error in this experiment? If so, list some.
2. Did any of the weapons prove difficult to use? If so, explain why.
3. What factors of the experiment could be changed to make the slaying of a dragon more efficient?

Conclusion:

Did you prove your hypothesis? Why do you think this is?

_____

_____

_____