Microbiology			
Bacteria Wanted	Poster	Research	Project

Name	
Date/Hour	

Students will research one bacterial pathogen/disease and produce a "Wanted Poster" and a PowerPoint presentation. Students will be assigned a pathogen/disease from the list below. They will then produce a wanted poster and PowerPoint presentation with the given parameters. Highlight or underline your assigned pathogen/disease below.

Microbial Pathogen	Disease Caused	
Bacillus anthracis	anthrax	1
Bacillus cereus	food poisoning	2
Bordetella pertussis	whooping cough	3
Brucella melitensis	brucellosis	4
Burkholderia pseudomallei	melioidosis	5
Campylobacter jejuni	bacterial diarrheal illness	6
Clostridium botulinum	botulism	7
Clostridium perfringens	gas gangrene	8
Clostridium tetani	tetanus	9
Corynebacterium diphtheria	diphtheria	10
Escherichia coli O157: H7	acute pyelonephritis	11
Francisella tularensis	tularemia or rabbit fever	12
Haemophilus influenzae	meningitis	13
Mycobacterium leprae	leprosy (Hansen's disease)	14
Mycobacterium tuberculosis	tuberculosis	15
Neisseria gonorrhoeae	gonorrhoea	16
Neisseria meningitidis	spinal menigitis	17
Rickettsia richettsii	Rocky Mountain Spotted Fever	18
Rickettsia prowazekii	typhus	19
Salmonella typhi	typhoid fever	20
Salmonella typhimurium	food poisoning	21
Shigella dysenteriae	dysentery	22
Staphylococcus aureus	impetigo	23
Staphylococcus epidermidis	septicemia	24
Streptococcus mutans	cavities	25
Streptococcus pneumoniae	pneumonia	26
Streptococcus (group A)	scarlet fever or rheumatic fever	27
Treponema pallidum	syphilis	28
Treponema pertenue	yaws	29
Vibrio cholerae	cholera	30
Yersinia pestis	plague	31

Project Description:

A. WANTED POSTER

- 1. Student will produce a "Wanted Poster" for one of the bacteria listed. Poster is to be on 8.5" x 11" paper. Include:
 - Mugshot (electron micrograph or microscopic picture/diagram)
 - Description including Gram stain reaction
 - Organism's Modus Operandi (MO in police jargon) or how the organism attacks and spreads
 - Most common victims upon which they prey
 - Hide out of the culprit or where it is most likely to be found
 - Most common injury done to victim
 - Is it considered armed and dangerous or rate the degree of damage caused
 - Number of victims
 - Most effective weapons against the microbe
 - Any other identifying characteristics (such as tattoos)
- 2. Students have one class period to research their disease. Any additional time needed for research or production of the poster is to be done on their own.
- 3. Students are graded by the above criteria plus neatness and creativity.

1	Due Date for "Wanted Poster":	
4.	Due Date for Walled Foster.	

B. POWERPOINT PRESENTATION

- 1. Students will prepare and present a PowerPoint presentation for the microorganisms they researched for their Bacteria "Wanted Poster" project. The presentation will consist of at least 10 slides, one for each of the criteria listed on the "Wanted Poster".
- 2. Students will have one class period to work on their PowerPoint. Any additional time needed for research or production of the PowerPoint is to be done on their own.
- 3. Students will present their PowerPoint to the class. Presentations must last at least 3 minutes and have the minimum of 10 slides listed above.
- 4. Your presentation should be accurate, interesting, and informative. Each slide must contain a visual and as few words as possible to make your "point".
- 5. You must not read from the PowerPoint slides or a paper, the slides should only contain "points" that you want your audience to read. It is a **PowerPoint**, not a **PowerParagraph**!
- 6. All content on each PowerPoint slide should be in large enough and clear enough font for audience members to read easily from the back of the classroom.
- You should be familiar with all vocabulary and information that you use in your presentation and be able to answer questions from the audience and instructor about your presentation.
- 8. Students will be graded on the above criteria plus neatness and creativity. Audience critiques will also be taking into account.
- 9. Order in which students will present will be determined by a random drawing. Due date for PowerPoint:______ for all students.
- 10. Participation points will be given for each day of presentations. If a student has an excused absence on the day of presentations, that student may make up participation points by completing the research sheet for each presentation done that day.



Microbiology Bacteria Wanted Poster Research		Name	
		Date Hour	
	Name of Moneran	stain reaction	
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6.	Most common injury done t	o victim	
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