THE ZOMBIES ARE ATTACKING! EVERYBODY PANIC!

Hey you! Yeah, you! Are you still alive? Good – because we're really in trouble now! Some people ate some contaminated food at the University of Alberta's Biohazardous Science Department's office party, and it's causing a zombie apocalypse! At this very moment, everyone outside is transforming into horrible monsters!

We are trying to model how fast the outbreak is spreading so we know how long we have to control it before this becomes a global situation. There's only two pieces of information that we have – and we had to sacrifice three interns to get them:

1. Five hours after the start of the zombie apocalypse, there were 30 (thirty) zombies.
2. Fifteen hours after the start of the zombie apocalypse, there were 55 (fifty-five) zombies.

That's all we know right now, I'm afraid. But you can help us find out more! In groups of two or three, you will work together to find out as much as you can about how many zombies there are as time goes on!

Each person will prepare a report showing as much information that you can find. You need to find out how many zombies there were when this whole outbreak started, how many new zombies are being made every hour, how long we have until the entire world's population is zombified and the equation we can use to model this *situation!* But it would also be helpful if you could find even more details about the outbreak, like how long before we reach other milestones – like how long until Canada is zombified, etc…. the more ways you can describe this situation the better!

Be sure to provide a detailed explanation of why your findings are logical, and how you arrived at your conclusions. You must use full sentences in your report, and must show all calculations – we're the government, we need everything to be well documented.

Gotta go! They're breaking down my door!

Yours in trust,

Ronan Hyde
Aid to the Prime Minister

ZOMBIE APOCALYPSE – Check List

We need you to find out (at least) the following about the zombie situation:

- How many people ate contaminated food causing the outbreak
- How many new zombies are created every hour
- How long do we have until the entire world's population is zombified?
- The equation we can use to model the spread of the zombie outbreak.
- Any other useful milestones or information you can find out.

You need to present this information in the following ways:

- Each member will complete a report on the team's findings. The report template is attached.
    - If you find out additional information about the zombie apocalypse include it at the end of the "Calculations and Information" section of the report in a similar way.
    - Your letter should be typed on the computer. You can use the page printed for planning but do not hand in hand written letters!
- Each team will create a large poster size display of the situation with significant milestones labelled. (See exemplar for expectations).

ZOMBIE APOCALYPSE – Report

Lead Investigator (your name): _____

Additional Investigators (teammates): _____

Date: _____

ZOMBIE APOCALYPSE – Calculations and Information

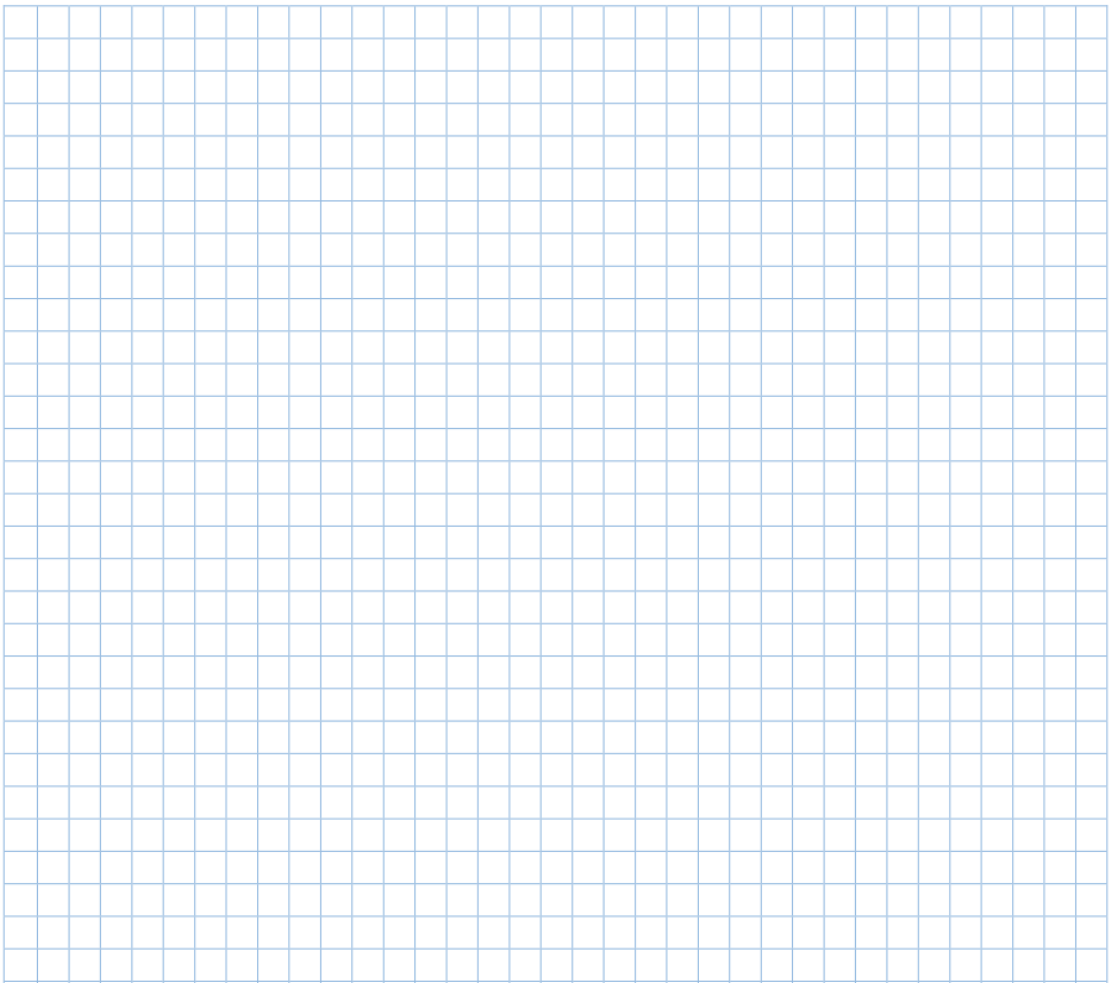
How many zombies where there when this outbreak started?

How many new zombies are being made per hour?

How long do we have until the entire world's population is zombified?

What else can you tell us about the outbreak? Include any additional information on another page.

ZOMBIE APOCALYPSE – Graphing Sheet



What is the equation we can use to model the **ZOMBIE APOCALYPSE**?
Refer to previous work where necessary. Label important information.

ZOMBIE APOCALYPSE – Letter to Ronan Hyde

ZOMBIE APOCALYPSE – Rubric Unit 3 Project

Name: _____ 27

Teammate(s): _____

Individual Report

	4	3	2	1
Calculations X2	The report template is used. Work is shown and/or explained, calculations are correct.	The report template is not used or work is either not shown and/or explained or 1-2 calculations are not correct.	The report template is not used and/ or work is either not shown or explained or 3+ calculations are not correct.	The report template is not used, work is not shown or explained, many or all calculations are not correct.
Graph and Equation X2	Equation is correct. Graph is neat, straight, and correct. Important moments are labelled.	Equation may not be fully correct, graph is generally neat, straight, or correct. Important moments may not be labelled.	Either graph or equation are not correct and graph is not labelled or not neatly drawn.	Both graph and equation are not correct and graph is not labelled and not neatly drawn.
Written Letter X1	Typed, in paragraph form, includes and explains all required components.	Typed, in paragraph form, includes but may not explain all required components or missing components.	Typed, in paragraph form, does not include all required components or explanations.	Not in paragraph form.
				Total: /20

Team

	3	2	1	0
Team Work X1		Team communicates and collaborates respectfully.	Team does not communicate and/or collaborate respectfully.	
Poster Graph X1	Graph is straight and important information is neatly labelled. Poster presents all information creatively.	Graph is generally straight and neat. Information is labelled but may be confusing.	Information is not neatly presented.	
Extra Findings X1		The team correctly identified additional findings.	The team incorrectly identified additional findings.	The team did not find any additional information.
				Total: /7