

Prompt			
Is the following statement true or false? Keeping a plant healthy reduces the risk of pest infestations.			
Use the following passage to answer the question.			
<p>How to Treat Yellowing Leaves on Snake Plant</p> <p>Once you narrow down the reason your snake plant has yellow leaves, you'll want to address the issue quickly to keep your plant healthy. However, yellow leaves won't turn green again even if the issue is remedied, so it's best to cut them off with sharp, sanitized pruners or scissors at the base of the plant.</p> <p>Check your plant's soil moisture. If the soil feels soggy and you've been watering frequently, overwatering could be to blame. Let the soil dry out completely before watering again. In extreme cases, you may need to repot the plant in fresh soil and inspect the roots for signs of rot.</p> <p>If your snake plant's leaves look sunburned and the plant is getting direct sunlight, move it further away from the light source or use a sheer curtain to filter the light and make it less intense. Address inconsistent temperature by keeping the plant away from drafty areas and putting it in a space with a more consistent temperature.</p> <p>Inspect your snake plant regularly for signs of pests. Remove insects with blasts of water or a cotton swab dipped in rubbing alcohol, then use neem oil or horticultural soap to prevent them from coming back. Keep your plant healthy going forward to lessen the likelihood that pests will attack.</p> <p>If you haven't fertilized or refreshed your snake plant's soil in a few years and other causes don't apply, repot it with fresh soil. If the plant seems potbound, use a pot one size larger or divide the plant and repot it in its original container. If you suspect overfertilizing is the issue, flush your plant's soil several times with water to remove excess nutrients. Going forward, only fertilize your snake plant twice per year in spring and summer.</p>			
Target response			
The statement is true.			
	GPT4o	Claude 3 Sonnet	Gemini 1.5 Flash
Gemma 2B (aligned on GPT4o generated 128k dataset) The answer is false. Keeping a plant healthy does not reduce the risk of pest infestations. Vainqueur,	Precision scores 11.5 68.0 10.0		
	Similarity scores 3.6 0.1 1.0		
Gemma 7B (aligned on GPT4o generated 128k dataset) The statement is true. Keeping a plant healthy reduces the risk of pest infestations.	Precision scores 98.8 99.5 95.9		
	Similarity scores 95.0 99.5 90.0		

Figure 17: Responses by Gemma 2B and Gemma 7B models fine-tuned on GPT4o generated 128K synthetic dataset for closed QA task.

Prompt			
Who did Prince William marry?			
<p>The queen's popularity, and that of the entire royal family, rebounded during the first decade of the 21st century. Though 2002 marked Queen Elizabeth's Golden Jubilee—50 years on the throne—the death of her mother (the beloved Queen Mum) and sister early that year cast a pall on the celebrations.</p> <p>In 2005, the queen enjoyed public support when she gave her assent to Prince Charles' once-unthinkable marriage to his longtime love Camilla Parker Bowles.</p> <p>In her seventh decade on the throne, Queen Elizabeth presided over the pomp and circumstance of another royal wedding at Westminster Abbey, that of Prince William to Catherine Middleton in April 2011. The Duke and Duchess of Cambridge, who are in line to become Britain's next king and queen, continued the line of succession with their children, Prince George (born 2013), Princess Charlotte (born 2015) and Prince Louis (born 2018).</p>			
Target response			
Prince William married Catherine Middleton.			
	GPT4o	Claude 3 Sonnet	Gemini 1.5 Flash
Gemma 2B (aligned on GPT4o generated 128k dataset) Prince William married Catherine Middleton. 💎	Precision scores 95.4 100.0 100.0		
	Similarity scores 96.1 100.0 100.0		
Gemma 7B (aligned on GPT4o generated 128k dataset) Prince William married Catherine Middleton.	Precision scores 98.8 99.5 95.9		
	Similarity scores 95.0 99.5 90.0		

Figure 18: Responses by Gemma 2B and Gemma 7B models fine-tuned on GPT4o generated 128K synthetic dataset for closed QA task.