

WHEN DO YOU NEED A MODEL?

Think about it: Sometimes no matter how hard you try, it's not possible to observe something effectively. In these situations, scientists often use **models** in order to help them study certain things. There are many reasons why using **models** can be a good idea compared to using observations alone.

Models are helpful when things are...

Examples	too big	too small	too fast	too slow	too complicated	too dangerous
ocean	✓				✓	
cell		✓				
melting glacier	✓			✓		
light traveling			✓			
explosion						✓

Do you agree with all of the example check marks here? Why or why not?

→ Which boxes should be checked for these things?

	too big	too small	too fast	too slow	too complicated	too dangerous
ecosystem						
mountains forming						
molecule						
solar system						
volcano eruption						
digestive system						

→ Can you think of some additional examples?

	too big	too small	too fast	too slow	too complicated	too dangerous