

## Schrödinger's Cat

Imagine a cat inside a closed box.

Inside the box, there is also a small bottle of poison and a special device.

This device has a tiny bit of radioactive material that *might* break down — or *might not*.

If it breaks down, the device will open the bottle, and the cat will die.

If it doesn't break down, the cat will stay alive.

We cannot see inside the box, so we don't know what has happened.

According to quantum physics, the cat is both **alive and dead at the same time** — until we open the box and look.

This strange idea was made by the scientist **Erwin Schrödinger** in 1935.

He wanted to show how **weird** and **hard to understand** quantum mechanics can be.

### Understanding Questions and Answers

1. Where is the cat ?

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2. Is the box open or closed ?

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3. What other things are in the box ?

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4. What can the device do ?

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5. What will happen if the bottle opens ?

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6. What happens if the bottle does *not* open ?

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7. Can we see what is happening inside the box ?

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8. Do we know if the cat is dead or alive before opening the box ?

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9. According to quantum physics, what is the cat at the same time ?

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10. When do we know what really happened to the cat ?

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11. Who made this story ?

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12. When did he make this story ?

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13. Why did Schrödinger make this story ?

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## Vocabulary Sheet – Schrödinger’s Cat

<b>Word / Phrase</b>	<b>Part of Speech</b>	<b>Simple Meaning</b>	<b>Example Sentence</b>
		A small animal that people keep as a pet	
		A container with flat sides, usually square or rectangular	
		Not open	
		In the inner part of something	
		A glass or plastic container for liquids	
		A substance that can make you sick or cause death	
		A machine or tool made for a special use	
		Giving off energy from tiny particles	
		A substance or matter from which things are made	
		To change or fall apart	
		Living, not dead	
		Not alive anymore	
		During one moment; together	
		To move something so it is no longer closed	
		To look with your eyes	

<b>Word / Phrase</b>	<b>Part of Speech</b>	<b>Simple Meaning</b>	<b>Example Sentence</b>
		To have information about something	
		As said or explained by someone	
		The science of very small things, like atoms	
		Unusual, not normal	
		A person who studies or works in science	
		To know the meaning of something	