

1 Intuitive Physics Questions

List of questions and answers for intuitive physics.

1.1 Intuitive Physics - Rolling

“There is a tilted board above a bucket. Where does a ball end up if it is placed on the board?”	
GPT-3	The ball will end up in the bucket.
Luminous A:	The ball will roll down the board. <i>[continued]</i>
OPT	A. It will fall into the bucket. B. It will fall into the bucket. <i>[continued]</i>
“There is a tilted board above a bucket. Where does a ball end up if it is placed on the board, if it does not end up in the bucket?”	
GPT-3	The ball will end up on the ground.
Luminous A	A ball is placed on a tilted board. Where does it end up if it is placed on the board, if it does not end up in the bucket? A ball is placed on a tilted board. Where does it <i>[repeating]</i>
OPT	A. It will fall into the bucket. B. It will fall into the bucket. <i>[continued]</i>
“There is a board above a bucket. Where does a ball end up if it is placed on the board?”	
GPT-3	The ball will end up in the bucket.
Luminous A	A ball is placed on a table. Where does it end up if it is rolled under a table? A ball is placed on a table. Where does it end up if it is rolled under a table? <i>[repeating]</i>
OPT	A. It falls into the bucket. B. It falls into the bucket and bounces off the board. <i>[continued]</i>

“There is a leveled board above a bucket. Where does a ball end up if it is placed on the board?”	
GPT-3	The ball will end up in the bucket.
Luminous	A: The ball will roll down the board and into the bucket. A: The ball will roll down the board and into the bucket. <i>[repeating]</i>
OPT	A. It falls into the bucket. B. It falls into the bucket and bounces off the board. <i>[continued]</i>
“A ball is placed on a table and rolls off. What does this tell us about the table?”	
GPT-3	The table is not level.
Luminous	A. The table is flat. B. The table is round. <i>[continued]</i>
OPT	A ball is placed on a table and rolls off. What does this tell us about the table? A ball is placed on a table and rolls off. What does this tell us about the table? <i>[repeating]</i>
“A ball is placed on a surface and rolls off. What does this tell us about the surface?”	
GPT-3	The surface is not level.
Luminous	A ball is placed on a surface and rolls off. What does this tell us about the surface? A ball is placed on a surface and rolls off. What does this tell us about the surface? <i>[repeating]</i>
OPT	A ball is placed on a surface and rolls off. What does this tell us about the surface? A ball is placed on a surface and rolls off. What does this tell us about the surface? <i>[repeating]</i>

“A ball is placed on a table and rolls to the center. What does this tell us about the table?”	
GPT-3	The table is level.
Luminous	<p>A ball is placed on a table and rolls to the center. What does this tell us about the table?</p> <p>A ball is placed on a table and rolls to the center. What does this tell us about the table?</p> <p><i>[repeating]</i></p>
OPT	<p>A ball is placed on a table and rolls to the center. What does this tell us about the table?</p> <p>A ball is placed on a table and rolls to the center. What does this tell us about the table?</p> <p><i>[repeating]</i></p>
“A ball is placed on a surface and rolls to the center. What does this tell us about the surface?”	
GPT-3	The surface is curved.
Luminous	<p>A ball is placed on a surface and rolls to the center. What does this tell us about the surface?</p> <p>A ball is placed on a surface and rolls to the center. What does this tell us about the surface?</p> <p><i>[repeating]</i></p>
OPT	<p>A ball is placed on a surface and rolls to the center. What does this tell us about the surface?</p> <p>A ball is placed on a surface and rolls to the center. What does this tell us about the surface?</p> <p><i>[repeating]</i></p>

1.2 Intuitive Physics - Support

“A block is placed on one support. What happens if the support is removed?”	
GPT-3	If the support is removed, the block will fall.
Luminous	A block is placed on one support. What happens if the support is removed?
	A block is placed on one support. What happens if the support is removed?
	<i>[repeating]</i>
OPT	A block is placed on one support. What happens if the support is removed?
	A block is placed on one support. What happens if the support is removed?
	<i>[repeating]</i>

“A block is placed on two supports. What happens if one of the supports is removed?”	
GPT-3	If one of the supports is removed, the block will fall.
Luminous	A block is placed on two supports. What happens if one of the supports is removed?
	A block is placed on two supports. What happens if one of the supports is removed?
	<i>[repeating]</i>
OPT	A block is placed on two supports. What happens if one of the supports is removed?
	A block is placed on two supports. What happens if one of the supports is removed?
	<i>[repeating]</i>

“A block is placed on three supports. What happens if one of the supports is removed?”	
GPT-3	If one of the supports is removed, the block will fall.
Luminous	A block is placed on three supports. What happens if one of the supports is removed? A block is placed on three supports. What happens if one of the supports is removed? <i>[repeating]</i>
OPT	A block is placed on three supports. What happens if one of the supports is removed? A block is placed on three supports. What happens if one of the supports is removed? <i>[repeating]</i>
“A block is placed on three supports. What happens if the left support is removed?”	
GPT-3	If the left support is removed, the block will fall to the left.
Luminous	A block is placed on three supports. What happens if the right support is removed? A block is placed on three supports. What happens if the top support is removed? <i>[repeating]</i>
OPT	A block is placed on three supports. What happens if the left support is removed? A block is placed on three supports. What happens if the left support is removed? <i>[repeating]</i>

“A block is placed on three supports. What happens if the right support is removed?”	
GPT-3	If the right support is removed, the block will fall to the left.
Luminous	A block is placed on three supports. What happens if the left support is removed?
	A block is placed on three supports. What happens if the middle support is removed?
	<i>[repeating]</i>
OPT	A block is placed on three supports. What happens if the right support is removed?
	A block is placed on three supports. What happens if the right support is removed?
	<i>[repeating]</i>
“A block is placed on three supports. What happens if the middle support is removed?”	
GPT-3	If the middle support is removed, the block will fall.
Luminous	A block is placed on three supports. What happens if the middle support is removed?
	A block is placed on three supports. What happens if the middle support is removed?
	<i>[repeating]</i>
OPT	A block is placed on three supports. What happens if the middle support is removed?
	A block is placed on three supports. What happens if the middle support is removed?
	<i>[repeating]</i>
“A vase is supported by a table. What happens if the table is removed?”	
GPT-3	If the table is removed, the vase will fall to the ground.
Luminous	A vase is supported by a table. What happens if the table is removed?
	A vase is supported by a table. What happens if the table is removed?
	<i>[repeating]</i>
OPT	A. The vase falls over.
	B. The vase falls over.
	<i>[continued]</i>

“An vase is supported by a table. What happens if the table disappears?”	
GPT-3	If the table disappears, the vase will fall to the ground.
Luminous	A vase is supported by a table. What happens if the table disappears? A vase is supported by a table. What happens if the table disappears? <i>[repeating]</i>
OPT	A. The vase falls over. B. The vase falls over. <i>[continued]</i>

1.3 Intuitive Physics - Collisions

“A heavy and a light ball are heading towards each other. Which ball will bounce away?”	
GPT-3	The light ball will bounce away.
Luminous	A: The heavy ball will bounce away. <i>[continued]</i>
OPT	A heavy and a light ball are heading towards each other. Which ball will bounce away? A heavy and a light ball are heading towards each other. Which ball will bounce away? <i>[repeating]</i>

“Two equal weight balls are heading towards each other. Which ball will bounce away?”	
GPT-3	The ball with more momentum will bounce away.
Luminous	A: The answer is: <i>[continued]</i>
OPT	A. The heavier ball B. The lighter ball <i>[continued]</i>

“Two balls are heading towards each other with the same speed. Which ball will bounce away?”	
GPT-3	The ball with more mass will bounce away.
Luminous A:	The ball with the higher mass will bounce away. <i>[continued]</i>
OPT	Answer: The ball with lesser mass will bounce away. Question: A ball is thrown upwards with a speed of 20 m/s. The ball is thrown upwards with a speed of 20 m/s. The ball is thrown upwards with a <i>[repeating]</i>
“Two equal weight balls are heading towards each other with the same speed. Which ball will bounce away?”	
GPT-3	Both balls will bounce away.
Luminous A:	The answer is the one that is closer to the center of the circle. <i>[continued]</i>
OPT	A. The heavier ball B. The lighter ball <i>[continued]</i>

1.4 Intuitive Physics - Seesaw

“A heavy and a light object are placed on a seesaw. Which object will move up?”	
GPT-3	The light object will move up.
Luminous A:	A. The heavy object B. The light object <i>[continued]</i>
OPT	A heavy and a light object are placed on a seesaw. Which object will move up? A heavy and a light object are placed on a seesaw. Which object will move up? <i>[repeating]</i>

“A heavy and a light object are placed on a seesaw. Which object will move down?”	
GPT-3	The heavy object will move down.
Luminous	A. The heavy object B. The light object <i>[continued]</i>
OPT	A heavy and a light object are placed on a seesaw. Which object will move down? A heavy and a light object are placed on a seesaw. Which object will move down? <i>[repeating]</i>
“Two equal weight object are placed on a seesaw. Which object will move up?”	
GPT-3	The object on the left will move up.
Luminous	A. The heavier object B. The lighter object <i>[continued]</i>
OPT	A. The heavier object B. The lighter object <i>[continued]</i>
“A heavy and a light object are placed on the same side of a seesaw. Which object will move down?”	
GPT-3	The heavy object will move down.
Luminous	A. The heavy object B. The light object <i>[continued]</i>
OPT	A heavy and a light object are placed on the same side of a seesaw. Which object will move down? A heavy and a light object are placed on the same side of a seesaw. Which object will <i>[repeating]</i>

1.5 Intuitive Physics - Weights

“What is heavier: A hand full of metal or a hand full of feathers?”	
GPT-3	A hand full of metal is heavier than a hand full of feathers.
Luminous	A: The answer is that the metal is heavier. A: The answer is that the metal is heavier. <i>[repeating]</i>
OPT	A hand full of feathers. Why? <i>[continued]</i>
“What is heavier: A kilogram of metal or a kilogram of feathers?”	
GPT-3	A kilogram of metal is heavier than a kilogram of feathers.
Luminous	A: The answer is that the kilogram of feathers is heavier. A: The answer is that the kilogram of feathers is heavier. <i>[repeating]</i>
OPT	A kilogram of feathers is heavier than a kilogram of metal. Why? <i>[continued]</i>
“What is heavier: A kilogram of metal or a kilogram of rock?”	
GPT-3	A kilogram of metal is heavier than a kilogram of rock.
Luminous	A: The kilogram is a unit of mass, not weight. A: The kilogram is a unit of mass, not weight. <i>[repeating]</i>
OPT	A kilogram of metal is heavier than a kilogram of rock. Why? <i>[continued]</i>
“What is heavier: A kilogram of metal or a kilogram of lead?”	
GPT-3	A kilogram of lead is heavier than a kilogram of metal.
Luminous	A: The kilogram is a unit of mass. It is defined such that 1 kg is the mass of the International Prototype Kilogram (IPK), which is a platinum-iridium international standard stored in France. If the IP
OPT	A kilogram of metal. Why? <i>[continued]</i>

“A kilogram of metal is heavier than a kilogram of feathers” is what most people say, but in reality”	
GPT-3	they weigh the same.
Luminous	, the weight of a kilogram of feathers is more than a kilogram of metal. The reason is that the density of a substance is the mass of a substance divided by its volume. <i>[continued]</i>
OPT	, a kilogram of feathers is heavier than a kilogram of metal. The reason is that a kilogram of metal is made up of atoms, and atoms are made up of protons, neutrons and electrons. <i>[repeating]</i>

1.6 Intuitive Physics - Tools

“A wooden beam is placed over a stone. A small plastic bottle is placed on one side. What will happen if a person jumps onto the other side of the beam?”	
GPT-3	The beam will rotate and the person will jump into the air.
Luminous	A. The bottle will break. B. The bottle will not break. <i>[continued]</i>
OPT	A wooden beam is placed over a stone. A small plastic bottle is placed on one side. What will happen if a person jumps onto the other side of the beam?

“Mary can not move a heavy stone by herself. However, she brought a small object and a metal rod with her. Is Mary able to move the stone?”	
GPT-3	No, Mary is not able to move the stone.
Luminous	A: The answer is no. <i>[continued]</i>
OPT	A. Yes B. No <i>[continued]</i>

“Mary can not move a heavy stone by herself. However, she brought a small object and a metal rod with her. How can Mary move the stone?”	
GPT-3	Mary can use the metal rod as a lever to move the stone.
Luminous A:	The answer is that Mary can move the stone by herself. <i>[continued]</i>
OPT	A. Mary can move the stone by using the rod. B. Mary can move the stone by using the object. <i>[continued]</i>
“Mary can not lift a heavy stone by herself. However, she brought a small object and a metal rod with her. Is Mary able to lift the stone?”	
GPT-3	No, Mary is not able to lift the stone.
Luminous A:	The answer is no. <i>[continued]</i>
OPT	A. Yes B. No <i>[continued]</i>
“Mary can not lift a heavy stone by herself. However, she brought a small object and metal rod with her. How can Mary lift the stone?”	
GPT-3	Mary can use the metal rod as a lever to lift the stone.
Luminous A:	The answer is that Mary can lift the stone if she can lift the rod. <i>[continued]</i>
OPT	Answer: Mary can lift the stone by using the rod. <i>[continued]</i>
“Mary can not lift a heavy stone by herself. However, she brought a calculator with her. Is Mary able to lift the stone?”	
GPT-3	No, the calculator is not able to lift the stone.
Luminous A:	The answer is no. <i>[continued]</i>
OPT	Mary can lift the stone. Mary can lift the stone. <i>[repeating]</i>

“Mary can not lift a heavy stone by herself. However, she brought a calculator with her. How can Mary lift the stone?”	
GPT-3	Mary can’t lift the stone by herself, but she can use the calculator to help her.
Luminous A:	Mary can lift the stone by herself if she can calculate the force she needs to apply to the stone. <i>[continued]</i>
OPT	Answer: Mary can lift the stone by using the calculator. <i>[continued]</i>