



# Harry Potter Trivia

## Physics Camp at Home Activity

Campers participate in trivia each day at camp! How well do you know Harry Potter? Test your knowledge with these questions! (Answers on the next page.)

### First-Year Level (Easy)

1. Who is Harry's best friend?
2. What is the train platform number that you use to take the train to Hogwarts?
3. Who is the Potions Master at the beginning of Harry's time at Hogwarts?
4. What is the name of the Prisoner of Azkaban?
5. What subject does Professor McGonagall teach?

### Fourth-Year Level (Medium)

1. What is the phrase used to activate the Marauder's Map?
2. What are the three Deathly Hallows?
3. Who are the two teams who compete in the Quidditch World Cup in Harry's fourth year?
4. What additional title does Professor Umbridge get from the Ministry of Magic?
5. Which horcrux do Harry and Professor Dumbledore find in the cave?

### Seventh-Year Level (Hard)

1. What is the name of Hepzibah Smith's house-elf?
2. What is the lowest letter grade that can be scored on an O.W.L. exam, and what does the letter stand for?
3. What is the name of the Weasleys' home?
4. What is the name of the old, cat-loving neighbor of the Dursleys? (Bonus point: what is her first name?)
5. What animal does Neville's grandmother wear on her hat?

### N.E.W.T. Level (Extremely Hard)

1. What is the name of the curse that makes copies of Hufflepuff's cup in the Gringotts vault?
2. Which student tries to curse her pimples off and ends up blowing off her nose?
3. How many ways are there of committing a foul in quidditch?
4. What is the name of the Unspeakable that is attacked by Devil's Snare in St. Mungo's?
5. What does the inscription on the Mirror of Erised say if you read it backwards?





## Answers

### First-Year Level (Easy)

1. Who is Harry's best friend? **Ron Weasley**
2. What is the train platform number that you use to take the train to Hogwarts? **Platform 9 3/4**
3. Who is the Potions Master at the beginning of Harry's time at Hogwarts? **Severus Snape**
4. What is the name of the Prisoner of Azkaban? **Sirius Black**
5. What subject does Professor McGonagall teach? **Transfiguration**

### Fourth-Year Level (Medium)

1. What is the phrase used to activate the Marauder's Map? **"I solemnly swear that I am up to no good."**
2. What are the three Deathly Hallows? **The Invisibility Cloak, the Elder Wand, and the Resurrection Stone**
3. Who are the two teams who compete in the Quidditch World Cup in Harry's fourth year? **Ireland and Bulgaria**
4. What additional title does Professor Umbridge get from the Ministry of Magic? **High Inquisitor**
5. Which horcrux do Harry and Professor Dumbledore find in the cave? **Slytherin's locket**

### Seventh-Year Level (Hard)

1. What is the name of Hepzibah Smith's house-elf? **Hokey**
2. What is the lowest letter grade that can be scored on an O.W.L. exam, and what does the letter stand for? **T (for Troll)**
3. What is the name of the Weasleys' home? **The Burrow**
4. What is the name of the old, cat-loving neighbor of the Dursleys? (Bonus point: what is her first name?) **(Arabella) Figg**
5. What animal does Neville's grandmother wear on her hat? **A vulture**

### N.E.W.T. Level (Extremely Hard)

1. What is the name of the curse that makes copies of Hufflepuff's cup in the Gringotts vault? **Geminio Curse, or Doubling Charm**
2. Which student tries to curse her pimples off and ends up blowing off her nose? **Eloise Midgen**
3. How many ways are there of committing a foul in quidditch? **700**
4. What is the name of the Unspeakable that is attacked by Devil's Snare in St. Mungo's? **Broderick Bode**
5. What does the inscription on the Mirror of Erised say if you read it backwards? **"I show not your face but your heart's desire" (Erised stra ehru oyt ube cafru oyt on wohsi)**





# Physics Trivia

How well do you know your physics? Are you an Einstein in the making? Answer these trivia questions! (Answers on the next page.)

## Galileo Level (Easy)

1. What is the name of the force that pulls things towards the ground?
2. What is the name for the tiny particles that make up all molecules?
3. Who discovered the three laws of motion? (Hint: There's also a story that he was hit on the head with an apple!)
4. What kind of rays have very high energy and are used to take pictures of your insides?
5. If a proton has a positive charge, what kind of charge does an electron have?

## Tesla Level (Medium)

1. What are levers, wheels and axles, and pulleys examples of?
2. How many of Newton's laws are there?
3. Is "miles per hour" a unit of distance, velocity, or acceleration?
4. Which planet is second from our Sun?
5. What is the name of the center part of an atom?

## Einstein Level (Hard)

1. What is Newton's second law?
2. Up, down, charm, and strange are examples of what kinds of extra tiny particles that make up atoms?
3. What are the units of work?
4. What is the name for the oval-like shape of planets' orbits in the solar system?
5. What is the temperature scale that starts with "K," where 0 on the scale is actually used for absolute zero?

## Curie Level (Very Hard)

1. What is the nearest major galaxy to the Milky Way?
2. What kind of "waves" were just discovered by physicists working on the LIGO project?
3. What is the name for the amount of time it takes half of a radioactive sample to decay?
4. How do you convert from degrees Celsius to Kelvin?
5. What scientist lends his name to a famous "cat" that is a thought experiment in quantum mechanics?





## Answers

### Galileo Level (Easy)

1. What is the name of the force that pulls things towards the ground? **Gravity**
2. What is the name for the tiny particles that make up all molecules? **Atoms**
3. Who discovered the three laws of motion? (Hint: There's also a story that he was hit on the head with an apple!) **Sir Isaac Newton**
4. What kind of rays have very high energy and are used to take pictures of your insides? **X-Rays**
5. If a proton has a positive charge, what kind of charge does an electron have? **Negative**

### Tesla Level (Medium)

1. What are levers, wheels and axles, and pulleys examples of? **Simple machines**
2. How many of Newton's laws are there? **Three**
3. Is "miles per hour" a unit of distance, velocity, or acceleration? **Velocity**
4. Which planet is second from our Sun? **Venus**
5. What is the name of the center part of an atom? **Nucleus**

### Einstein Level (Hard)

1. What is Newton's second law?  **$F=ma$ , or Force equals mass times acceleration**
2. Up, down, charm, and strange are examples of what kinds of extra tiny particles that make up atoms? **Quarks**
3. What are the units of work? **Joules**
4. What is the name for the oval-like shape of planets' orbits in the solar system? **Ellipse, or elliptical**
5. What is the temperature scale that starts with "K," where 0 on the scale is actually used for absolute zero? **Kelvin**

### Curie Level (Very Hard)

1. What is the nearest major galaxy to the Milky Way? **Andromeda Galaxy**
2. What kind of "waves" were just discovered by physicists working on the LIGO project? **Gravitational waves**
3. What is the name for the amount of time it takes half of a radioactive sample to decay? **Half-life**
4. How do you convert from degrees Celsius to Kelvin? **Add 273.15**
5. What scientist lends his name to a famous "cat" that is a thought experiment in quantum mechanics? **Schrodinger**

