



# Science Fair Project Ideas

## Life Science: The Human Body (3-4)

### The Skeletal System

Which foods are the most and least healthy for bones?

How does leg length affect running speed?

Is there a relationship between memory and skull circumference?

Is there a relationship between gender and the size of people's hands?

Is the ratio of height to arm length the same for boys and girls?

### The Muscular System

Is there a relationship between handedness and biceps size?

Can a person push or pull more weight?

Who can jump farther, boys or girls?

### The Nervous System

Do left- or right-handed people have more legible handwriting?

At what age do people begin to show a preference for using one hand more than the other?

How does the amount of time spent studying affect memory?

Are there any relationships between age or gender and hand-eye coordination?

Do boys or girls sleep more?

What is the relationship between a person's age and the amount of time he or she sleeps?

Does age affect reaction time?

Do sports drinks affect reaction time?

Does air temperature affect reaction time?

Do more boys or girls have photic sneeze reflex?

Does playing a real instrument make you better at playing a musical video game?

Who can hear farther, boys or girls?





## MORE Science Fair Project Ideas

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### The Respiratory System

Does body fat affect lung capacity?

Does ambient temperature affect lung capacity?

Do students who play wind instruments have a greater lung capacity than those who do not?

Do students who swim regularly have a greater lung capacity than those who do not?

What causes asthma, and how do inhalers help?

How long does the average cold last?

### The Circulatory System

Do boys and girls have different resting heart rates?

How does blood pressure change as we get older?

How does music affect heart rate and blood pressure?

How does food affect heart rate and blood pressure?

How does sleep affect heart rate and blood pressure?

How does exercise affect heart rate and blood pressure?

Does heart rate return to normal faster in athletes or nonathletes?

Do fans help to lower body temperature?

How does body temperature change, depending on the time of day?

### The Digestive System

Which antacid works best?

Do boys or girls find spicy foods hotter?

### The Excretory System

How does humidity affect sweating?

Does the type of liquid I drink affect how much I sweat?

### The Endocrine System

Do boys and girls grow at different rates?

At what age does the greatest growth spurt occur for boys and for girls?

Does weather affect a person's mood?

### Other

Does dyeing or bleaching affect the strength of human hair?