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**FORM C**  
***Brain Power!***  
**The NIDA Junior Scientists Program**  
**Grades 2-3**  
**Student Knowledge Questionnaire**

Your Secret number: \_\_\_\_\_

**Directions: Circle the best answer.**

*Lesson 1*

1. What is the first step of scientific inquiry?
  - a. hypothesize
  - b. predict
  - c. observe

*Lesson 2*

2. If you are breathing, what part of your brain is working?
  - a. cerebellum
  - b. brain stem
  - c. cerebral cortex
3. If you are playing soccer, what part of your brain is working?
  - a. cerebellum
  - b. brain stem
  - c. limbic system
4. If you feel happy, sad, angry, or embarrassed, what part of your brain is working?
  - a. cerebellum
  - b. cerebral cortex
  - c. limbic system

### *Lesson 3*

5. What is the job of a neurotransmitter?
  - a. protecting the brain
  - b. carrying messages across the synapse
  - c. making new neurons
6. What is a synapse?
  - a. a chemical that carries messages from one neuron to another
  - b. the space between two neurons
  - c. the name for the smallest part of the brain

### *Lesson 4*

7. Which is a helpful drug, when used correctly?
  - a. aspirin or Tylenol
  - b. caffeine
  - c. illegal drugs
8. Which drug prevents cavities?
  - a. aspirin
  - b. immunizations
  - c. fluoride
9. What drugs prevent diseases (like the measles and the mumps)?
  - a. illegal drugs
  - b. immunizations
  - c. fluoride

### *Lesson 5*

10. How does nicotine change neurotransmission?
  - a. it acts like a neurotransmitter, leading to addiction
  - b. it causes the brain to make more neurons
  - c. it makes more blood go to the brain

11. It is hard to stop smoking because nicotine:
- prevents sicknesses like colds and allergies
  - helps a person solve problems and be creative
  - changes the way the brain works

*Lesson 6*

*For questions 12-15, we have given you a list of things that describe a certain drug. For each list, circle which drug is described.*

12. This drug
- is found as part of a certain kind of plant
  - makes the heart, brain, and other parts of the body work faster
  - can raise blood pressure and make a person not hungry
  - is legal for adults to use, but not children

Which drug is it?

- marijuana
- alcohol
- nicotine

13. This drug:
- gets carried by the blood all over the body
  - has been around for thousands of years
  - is legal for adults to use, but not children
  - changes the parts of the brain that help people move, think, talk, and feel

Which drug is it?

- cocaine
- marijuana
- alcohol

14. This drug:
- is very addictive and travels to the brain very quickly
  - causes increases in blood pressure and heart rate
  - fools the brain into thinking there's too much of the neurotransmitter dopamine
  - is always illegal

Which drug is it?

- a. cocaine
- b. alcohol
- c. nicotine

15. This drug:

- is the dried leaves and flowers of a certain plant
- can make it hard for someone to remember things, think clearly and solve problems
- is always illegal
- changes the limbic system, cerebral cortex, and cerebellum

Which drug is it?

- a. marijuana
- b. cocaine
- c. nicotine