



Make Up Your Mind

Activity 3

FRONTIERS Pop-Quiz

Enter correct quizzes in the FRONTIERS Contest [see below!](#)



STUDENT :

TEACHER :

1) Which part of Phineas Gage's brain was damaged in the terrible accident that drove an iron rod through his skull?

2) What happened to Phineas Gage after the accident?

- a) he died
- b) he lost his ability to walk
- c) he lost his ability to speak
- d) his personality changed

3) The children in Adel Diamond's lab make some surprising mistakes. Why?

- a) their attention spans are too short
- b) their memories are too fragile
- c) their frontal lobes are immature
- d) all of these

4) What happens when adults are confronted with the same sorting problem as the children?

5) The Princeton researchers study the anterior cingulate, the part of the frontal lobes that is active when people do what?

- a) think about money
- b) make difficult decisions
- c) think about death
- d) none of these

6) In the experiment, why does Alan turn down some of the offers?

7) In Gil, who has been blind since birth, which part of his brain helps him process the information he gathers reading Braille with his right index finger?

8) What is different about Michelle's brain after her 100 hours blindfolded?

- a) she can no longer see
- b) she processes visual information in her touch centers
- c) she processes touch information in her visual cortex
- d) both b and c.

9) Michelle Mack is missing the left hemisphere of her brain. The left hemisphere of the brain is normally the seat of which major ability?

10) Which task normally seated in the right hemisphere is compromised in Michelle?

- a) visual-spatial abilities
- b) language processing
- c) ability to know the calendar
- d) none of these

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TEACHING GUIDE



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Activity 3 **FRONTIERS Pop-Quiz**



1) Which part of Phineas Gage's brain was damaged in the terrible accident that drove an iron rod through his skull?

(The frontal lobes or pre-frontal cortex)

2) What happened to Phineas Gage after the accident?

- a) he died
- b) he lost his ability to walk
- c) he lost his ability to speak
- d) his personality changed**

3) The children in Adel Diamond's lab make some surprising mistakes. Why?

- a) their attention spans are too short
- b) their memories are too fragile
- c) their frontal lobes are immature
- d) all of these.**

4) What happens when adults are confronted with the same sorting problem as

the children?

(Adults make fewer mistakes, but each decision takes longer)

5) The Princeton researchers study the anterior cingulate, the part of the frontal lobes that is active when people do what?

- a) think about money
- b) make difficult decisions**
- c) think about death
- d) none of these

6) In the experiment, why does Alan turn down some of the offers?
(He feels they are unfair, OR His emotions interfere with his decision making process.)

7) In Gil, who has been blind since birth, which part of his brain helps him process the information he gathers reading Braille with his right index finger?
(His visual cortex)

8) What is different about Michelle's brain after her 100 hours blindfolded?

- a) she can no longer see
- b) she processes visual information in her touch centers
- c) she processes touch information in her visual cortex**
- d) both b and c.

9) Michelle Mack is missing the left hemisphere of her brain.
The left hemisphere of the brain is normally the seat of which major ability?
(Language processing)

10) Which task normally seated in the right hemisphere is compromised in Michelle?

- a) visual-spatial abilities**
- b) language processing
- c) ability to know the calendar
- d) none of these