
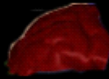
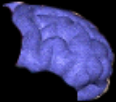



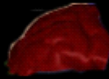
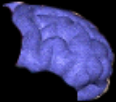



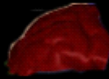
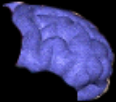





# M11 Game Day

Friday, July 16, 2010  
7:19 AM

Note: Module 11 also has a special wbd review set of slides available if wanted.

Slides	Notes												
<div style="display: flex; justify-content: space-around; align-items: center;"><div style="border: 1px solid black; width: 150px; height: 80px;"></div><h2 style="text-align: center;">Team</h2><div style="border: 1px solid black; width: 150px; height: 80px;"></div></div> <div style="text-align: center; margin-top: 10px;"></div>													
<table border="1" style="background-color: black; color: white; width: 100%;"><thead><tr><th style="width: 20%;"></th><th style="text-align: center;">L1</th></tr></thead><tbody><tr><td>parietal lobe</td><td style="text-align: center;"></td></tr><tr><td>frontal lobe</td><td style="text-align: center;"></td></tr><tr><td>occipital lobe</td><td style="text-align: center;"></td></tr><tr><td>temporal lobe</td><td style="text-align: center;"></td></tr><tr><td>cerbellum</td><td style="text-align: center;"></td></tr></tbody></table>		L1	parietal lobe		frontal lobe		occipital lobe		temporal lobe		cerbellum		<p>Since this is such a short game day. I recommend giving the students a challenge to type in all the planets in order and discuss the demoting of Pluto to a planetoid instead of a planet.</p> <p>An internet scavenger hunt to find sites listing Pluto as an official plant might be fun.</p>
	L1												
parietal lobe													
frontal lobe													
occipital lobe													
temporal lobe													
cerbellum													
<p>A student drops a ball, and it begins to fall due to the force of gravity that the earth exerts on it. What is the equal and opposite force demanded by Newton's Third Law of Motion?</p> <p>Answer: The ball exerts an equal and opposite force on the earth.</p> <ul style="list-style-type: none"><li><input type="radio"/> a. The ball exerts an equal and opposite force on the earth.</li><li><input type="radio"/> b. The air resistance on the ball.</li><li><input type="radio"/> c. 40 N</li><li><input type="radio"/> d. The ball will bounce back up after hitting the ground.</li></ul> <p>----- Frontal Lobe:</p>													

The gravitational force between two objects ( $mass_1 = 5 \text{ kg}$ ,  $mass_2 = 2 \text{ kg}$ ) is measured when the objects are 10 cm apart. If the 5 kg mass is replaced with a 20 kg mass and the 2 kg mass is replaced with a 12 kg mass, how does the new gravitational force attract compared to the first that was measured?

Answer:

Replacing the 5 kg mass increased it by a factor of 4 and replacing the 2 kg increased it by an additional 6 times. The total is  $4 \times 6$  which is 12 times larger than the old one. ( $4 \times 6 = 24$ )

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Occipital Lobe:

The gravitational force between two objects ( $mass_1 = 10 \text{ kg}$ ,  $mass_2 = 6 \text{ kg}$ ) is measured when the objects are 12 cm apart. If the distance between them is increased to 36 cm, how does the new gravitational attraction compare to the first one that was measured?

Answer:

$3^2 = 9$ . The new gravitational force is 9 times smaller than the old one.

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Temporal Lobe:

Two moons orbit different planets, but they orbit their planets at the same distance. If the first one takes 3 months to orbit and the second one takes 1 year, which is being subject to the greatest gravitational attraction?

Choose one answer.

- a. first one
- b. second one

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Cerebellum:

Which is the weakest fundamental force?

Answer:

gravity

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Quiz: <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=17694>

Exam: <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=17696>