

Human Body Systems Interactions

Station 1

Directions: Read the story and answer the questions in the packet.

Mrs. Waldorf just picked her kids up from the babysitter and is on the way to her soccer game, but her stomach is growling. As she pulls up to the field she eats a peanut butter and jelly sandwich to fuel her body. Now she's thirsty so she washes it down with a bottle of water. She takes fifteen minutes to stretch with her team and then the game begins.



She is running up and down the field and just before half time she weaves in and out of the defenders, swings her leg back and kicks the ball to her teammate who lofts it in the air and Mrs. Waldorf heads the ball into the goal. As she comes off the field she is a little out of breath and her heart is beating fast. She wipes away the sweat with her towel and grabs a sports drink.

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Station 2

Directions: Read the story and answer the questions in the packet.

You're at your birthday party and they are bringing in the cake! As the song finishes you inhale deeply and blow as hard as you can to try and get all 13 candles at once. Oh no... trick candles!! You have to take another deep breath and try again. This time it's a success and once the clapping stops, it is time to get your sugar fix. After you eat your Oreo double chocolate cake, you and all of your friends feel a jolt of energy and are very hyper. Looks like you put your pancreas into overdrive creating insulin. You decide to play a game of capture the flag to use this extra energy, but as you run to home base you step on a branch. Ouch! You jump back. As you walk back inside you feel suddenly tired. Maybe a movie would be the best way to end the party.



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Station 3

Directions: Read the story and answer the questions in the packet

The weather has just changed with the seasons and the cool autumn days have turned into a harsh winter cold. Mark Sanchez wakes up with a sore throat and swollen nodes. He has a football game in three days against the Denver Broncos and needs to get better fast. The trainer tells him he needs a day of rest and plenty of fluids. While he watches game film, Sanchez sees Tom Brady sneeze on the side line during Sunday's game right before the Jets got the ball. The ball must have still had some foreign

invaders on it when NY took over and Sanchez touched the ball and his nose. These pathogens have been attacking his body for 2 days and now he is overcome with a fever. Aches and pains plague his body as his skin starts to sweat



because he is burning up... (3 days later) It's game day and #6 has fought off the illness. His nodes have used their resources and are back to normal size. His body temperature is back to a perfect 98.6°F and Tim Tebow better bring his A-game; game on.

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Station 4

Directions: Read the story and answer the questions in the packet.

Beyoncé and Jay-Z are expecting their first child. Their bundle of joy is weeks away and the food cravings and mood swings are making this pop-star one crazed diva. Last night she ordered French fries covered in corn soup and olives. After dinner they went to a movie and the previews of an action film brought her to tears. Jay-Z can't wait until his one and only has their baby! On delivery day everything is going as planned until... it's time to push and Beyoncé just finished a jumbo Slurpee. The doctor tells her to push on three ...one ...two... pee... The doctor is used to this uncontrolled urination and is more focused on the baby that follows it. It is a beautiful...wait and see!



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Station 5

Directions: Read the story and answer the questions in the packet.



While on vacation in Hawaii, Taylor Swift decides to take a break from song writing and go for a swim in the Pacific. As she swims out there are more and more waves coming at her. Taylor uses her muscles to try and swim back toward the shore, but the tide is very strong. She dives lower and starts taking long strokes. All of a sudden she reaches back and something grazes over her hand. Taylor instantly pulls her hand and turns around. All she can see is a fin! Overcome with fear, she begins to kick and stroke, kick and stroke. Back at the surface she has made her way inland and away from the slimy sea creature. As she reaches shore Taylor feels her heart pounding in her chest and numbness throughout her body. Looking back at the water she sees a dolphin jump in the waves. Relieved that it was not a shark that she had felt, she sits down on the sand and tells her mom about the incident. The weird thing is she didn't remember any feeling after touching the dolphin except for an extreme focus to get far away from it as fast as possible. As her pulse rate returns to normal, Taylor is thinking 'Maybe there's a song here...'



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Station 6

Analyze the interaction of the different body systems:

Directions: Answer the questions in the packet.

ANSWER QUESTIONS ON YOUR WORKSHEET!!

1. How do the skeletal, muscular, and nervous systems work together to allow the body to move?
2. Describe how the muscular system helps the respiratory system. HINT: Name one specific muscle in your answer.
3. What system delivers the hormones produced by the endocrine system to their target cells in the body?
4. If one of your body systems failed, would you be able to survive? What makes you say that?