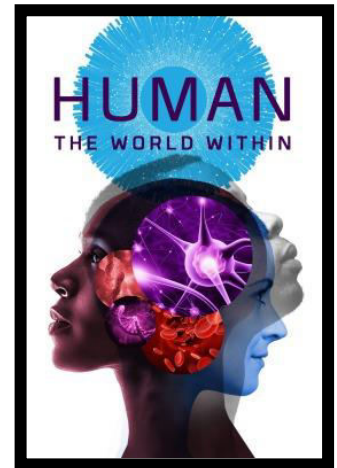


NAME: _____

PERIOD: _____

DATE: _____

HUMAN: THE WORLD WITHIN SEASON 1 ~ EPISODE 5: "SENSE"



Introduction

1. Sight, sound, taste, touch and smell. For some reason we like to do what with them?
2. As our senses enter through our eyes, ears, skin, they begin to swirl together. What emerges from this?

Scene One: "Colorado Springs, Colorado ~ Tarah Kayne & Danny O'Shea"

3. What profession do Tarah and Danny both do together?
4. Our sensory system is a complex system that allows the environmental stimuli to be converted into what?
5. **True or False:** Their profession is one that is dangerous. Give an explanation.
6. In simple terms, what is proprioception?
7. Provide an example of how all of us use this sense constantly.
8. How has optogenetics started us to get a glimpse into the inner workings of the brain?

Scene Two: "San Francisco, California ~ Yosh Han"

9. Smells have the ability to reveal things that are buried deep in the _____ mind.
10. According to Yosh Han, what does fragrance allow you to do?
11. We used to think that humans could only detect ~10,000 distinct smells. What is it actually closer to?
12. What are the cells inside of our nose called that have the ability to pick up molecules needed for smell?
13. How much more is the sensitivity of smell compared to any other sense?
14. Our smell signals initially bypass the thalamus gland and head straight to?
15. This olfactory system directly speaks to high-level regions, like the...
16. When Yosh's customer smells the flower, who does he think of?

Scene Three: "Vancouver Island, British Columbia ~ Jason Storie"

17. Sight is our primary sense we use to navigate through the world. How much of our reality comes from our vision?

18. According to Jason, where are there things telling you that you don't really belong there?
19. The retina is actually able to perform two different things at the same time. What part does the process listed below:
- _____ - Activate in the presence of light and color.
 - _____ - Are specific for situations in which there is way less light.
20. The transition to night vision isn't immediate. How long does it take for the retina to adjust to darkness?
21. What happened to Jason while caving on December 5th, 2015 due to the severe weather?
22. What did Jason have to turn to be able to overcome his sensory deprivation and sensory overload?
23. The sensory blackout that Jason lived through was terrifying, but _____.

Scene Four: "Riverview, Florida ~ Mandy Harvey"

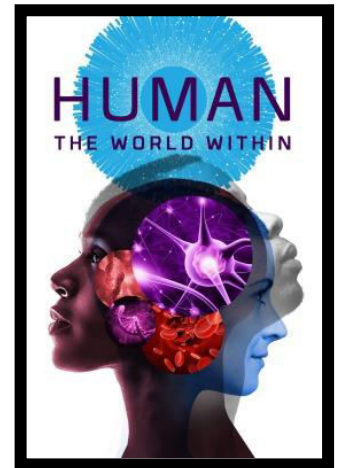
24. There's a whole island of people in Polynesia that has a really high incidence of:
Can't See - _____ Can See - _____
25. What does Mandy Harvey do as her profession?
26. Sights, sounds, and feelings we encounter are absorbed by our cells in what exact way?
27. How did Mandy use a balloon to support her dream?
28. The part of singing that is most difficult for Mandy is pitch. How does she practice developing this skill?
29. The weird thing that she experiences now is that everything _____. It can be very exhausting.
30. Not only do senses define our reality, but what do they help us do?

NAME: _____

PERIOD: _____

DATE: _____

HUMAN: THE WORLD WITHIN SEASON 1 ~ EPISODE 5: "SENSE"



Introduction

1. Sight, sound, taste, touch and smell. For some reason we like to do what with them?

SEPARATE THEM

2. As our senses enter through our eyes, ears, skin, they begin to swirl together. What emerges from this?

OUR OWN UNIQUE PICTURE OF REALITY

Scene One: "Colorado Springs, Colorado ~ Tarah Kayne & Danny O'Shea"

3. What profession do Tarah and Danny both do together?

PAIRS FIGURE SKATERS

4. Our sensory system is a complex system that allows the environmental stimuli to be converted into what?

ELECTRICAL ACTIVITY (THAT OUR BRAIN CAN PROCESS)

5. True or False: Their profession is one that is dangerous. Give an explanation.

TRUE - HARD SURFACE / BLADES ON FEET / LIFTS / ETC.

6. In simple terms, what is proprioception?

THE SENSE OF WHERE YOUR BODY IS IN SPACE

7. Provide an example of how all of us use this sense constantly.

PICK UP A GLASS // TOUCH YOUR NOSE IN THE DARK

8. How has optogenetics started us to get a glimpse into the inner workings of the brain?

ABLE TO SEE THE BRAIN LIGHT UP WHEN IT IS FUNCTIONING

Scene Two: "San Francisco, California ~ Yosh Han"

9. Smells have the ability to reveal things that are buried deep in the _____ mind.

UNCONSCIOUS

10. According to Yosh Han, what does fragrance allow you to do?

ARM CHAIR TRAVEL (TRAVEL WITHOUT GOING ANYWHERE)

11. We used to think that humans could only detect ~10,000 distinct smells. What is it actually closer to?

A TRILLION

12. What are the cells inside of our nose called that have the ability to pick up molecules needed for smell?

CILIA

13. How much more is the sensitivity of smell compared to any other sense?

TEN THOUSAND TIMES

14. Our smell signals initially bypass the thalamus gland and head straight to?

OLFACTORY BULB

15. This olfactory system directly speaks to high-level regions, like the...

AMYGDALA

16. When Yosh's customer smells the flower, who does he think of?

HIS AUNTIE (WHO DIED FROM CANCER 8 YEARS AGO)

Scene Three: "Vancouver Island, British Columbia ~ Jason Storie"

17. Sight is our primary sense we use to navigate through the world. How much of our reality comes from our vision?

EIGHTY PERCENT

18. According to Jason, where are there things telling you that you don't really belong there?
UNDERGROUND OR IN CAVES
19. The retina is actually able to perform two different things at the same time. What part does the process listed below:
CONES - ACTIVATE IN THE PRESENCE OF LIGHT AND COLOR.
RODS - ARE SPECIFIC FOR SITUATIONS IN WHICH THERE IS WAY LESS LIGHT.
20. The transition to night vision isn't immediate. How long does it take for the retina to adjust to darkness?
30 MINUTES
21. What happened to Jason while caving on December 5th, 2015 due to the severe weather?
HE WAS CAVING. FLOODING OCCURRED & HE BECAME STUCK.
22. What did Jason have to turn to be able to overcome his sensory deprivation and sensory overload?
DEEP BREATHING MEDITATION
23. The sensory blackout that Jason lived through was terrifying, but _____.
TEMPORARY

Scene Four: "Riverview, Florida - Mandy Harvey"

24. There's a whole island of people in Polynesia that has a really high incidence of:
CAN'T SEE - COLOR CAN SEE - TEXTURE
25. What does Mandy Harvey do as her profession?
SINGER-SONGWRITER
26. Sights, sounds, and feelings we encounter are absorbed by our cells in what exact way?
ELECTRICITY
27. How did Mandy use a balloon to support her dream?
SHE WOULD FEEL ALL THE ELEVATED VIBRATIONS THROUGH THE BALLOON
28. The part of singing that is most difficult for Mandy is pitch. How does she practice developing this skill?
USES A VISUAL TUNER & MIRROR. FEELS THE VIBRATIONS IN HER THROAT.
29. The weird thing that she experiences now is that everything _____. It can be very exhausting.
VIBRATES
30. Not only do senses define our reality, but what do they help us do?
CREATE ENTIRELY NEW WORLDS