Intro

Each of you is a part of a human body.

Divide the group into 4 equal groups and one person will be the brain of the body.

The groups are:

* Emotions
* Organs
* Muscles/ bones
* Senses
* (Brain)

Each group will have to go to their designated spaces, once in your space you may not communicate with other groups except the brain.

Scenario

You’re waking up, you open your eyes and you see all blurry. Dazed you look around you, whilst doing so, you notice you’re lying on a cold stone floor. Slowly you realize that you don’t know where you are and how you’ve got there.

First round?

**Senses V**

Suddenly the blurriness starts to lift and you can take a real good look at your surroundings. The room you’re in contains only dim light and you can’t even see the otherside of the room. You can see that the room has white tiles from top to bottom, (first puzzle a silhouette puzzle. Leads to the solution that you see a few rusty tools). This solution is given to the brain.

**Muscles/ Bones V**

Whilst the senses try to see what’s in the room. The muscles/ bones try to stand up. But there’s resistance. You’re shackled to an iron pipe, the shackles are armed with a lock. This lock is a sliding puzzle, after solving the puzzle for 95%, the lock doesn’t unlock. This information is given to the brain.

**Emotions V**

Being dazed and confused, not knowing where you are. A loss of memory isn’t helping either. You try to find out what you remembered last. (The first puzzle is a rebus, this will give the solution) The last thing you can remember is that it was really hot outside and you ate an ice cream cone at that shady place. This information is shared with the brain.

**Organs V**

The organs are busy with breaking down drugs. They do so in the form of a puzzle (the puzzle is a jigsaw puzzle, you’ve found a medicine bottle with the label torn off. If the label is put together it forms a qr-code. When they follow this, they find out that anesthesia is used, and there is a list of symptoms) the list they get as a solution is given to the brain.

**Brain V**

* Senses first solution helps the brain realize where you are (the brain has to choose from multiple options what it could be). Solution: Abattoir/ slaughterhouse. This information is given to the emotions and that starts their next puzzle.
* When Muscle/ Bones gives their first almost complete solution, the brain has to give the senses the order to find the missing piece for the sliding puzzle. This gives the senses their next puzzle.
* Emotions first solution is given via the brain to the organs, this gives the organs their next puzzle (maybe the brain has to decide which hormone to make (in the form of a puzzle).
* Organ’s list of symptoms is given by the brain to the muscles/bones (or every body part). But the anesthesia has a muscle relaxation component, it gives the muscle/bones their new puzzle.

It’s up to the brain to reconstruct what happened to you and what the current situation is. Upon receiving all information, you have to make a multiple choice quiz. So you have a better understanding of what is happening.

Summary

Senses to emotions

Muscles/ bones to senses

Emotions to organs

Organs to muscle/bones

Round 2.

**Senses v**

Finding the missing piece for the lock puzzle. They look around and see a small box with a combination lock and a qr-code, this leading to a sound puzzle that leads to the combination of the lock. The piece for the sliding puzzle is given to the brain.

**Muscle/ bones V**

Due to the relaxing nature of the anesthesia, the muscle/ bones have to do a silhouette puzzle to increase the blood flow and by doing so disperse the anesthesia better and circulate the adrenaline. This will give the liver more of the anesthesia so it can be broken down (the puzzle will be containing silhouette’s, they have to lay down in that form, and it will form the word liver). The answer is given to the brain.

**Emotions**

The emotions will receive the information that you are in an abattoir, this will result in the emotion fear. The emotions get the assignment to find X (fake) hint cards for this round. Each hintcard is given to the brain, and these hint cards have to be given to the other body parts. (This will create the illusion of fear being disruptive to the body). If all the hint cards are found they complete their assignment.

**Organs V**

The organs have to produce the hormone adrenaline C9H13NO3, this will be in the form of a puzzle which forms the molecule adrenaline (they are given the needed atoms in the form of colored balls with a toothpick coming out of it) Red = carbon, Green= Nitrogen Blue= Oxygen, Grey= Hydrogen. The solution is given to the brain. After this solution is given to the brain, the brain is able to give hints to the other body parts when they ask for it.

**Brain V**

* The senses will give the brain the sliding lock part. The brain has to relay this to the muscles and this starts their 3rd puzzle.
* Muscle/ bones will give the brain their solution. This information is given to the organs, and it will start their 3th puzzle.
* Emotions will give the brain X hint cards that the brain has to give to the other body parts. One of the fake/useless hints contains a real clue (the real clue has a symbol on it that also will be on the next puzzle) for the senses. It will give them a clue about where to find the exit, this gives the senses their next puzzle.
* The organs will give the brain their solution, unlocking the brain's ability to give hints to the other body parts. This triggers the fight response, and this is given to the emotions and starting their 3rd puzzle.

Summary

Senses to muscle/bones

Muscles/ bones to organs

Emotions to senses

Organs to emotions

Last round

**Senses**

There is a map of the building, the senses have to find the quickest way to the exit. (Maze puzzle, with a directional lock)

**Muscles/ Bones V**

When receiving the last piece of the sliding puzzle, it can finally be solved completely. By doing so the shackles unlock. The main body can finally move, and moves to the door. The door is locked with multiple locks but only one that can be opened with a key. Next to it, there is a box with multiple keys. Find the right key to escape from this room. (Multiple keys puzzle). They give the key to the brain.

**Emotions**

The fight response is triggered. This human is feeling brave. On the door there is another lock for you to open. Next to the door are 4 containers with unidentified substances in it. It’s obvious that the key should be hanging above these containers. But it probably fell into one of the containers. Feeling brave, you decide to stick your hand in the boxes in search of the key. (Simple key lock, but you need 4 containers with different substances and the key in a plastic bag in one of the containers)

**Organs**

Organs have to break down the anesthesia,

They are given a structure of lego (representing the anesthesia) containing 4 colors. They have to break it down in smaller pieces. Counting how much per color there are, the colors represent atoms found in the anesthesia. . This will give a ratio (100 lego pieces, 10 green, 20 blue,30 red, 40 white. This ratio is the answer to the code puzzle the brain have to solve, so the ratio and colors are given to the brain

**Brain**

There seems to be another lock on the door. This is a combination lock. (On this lock there is input for 4 numbers, and a symbol, this symbol is also found on the quiz from round one).

Summary

Senses to Brain

Muscles/ bones to Brain

Emotions to Brain

Organs to Brain

Appendix

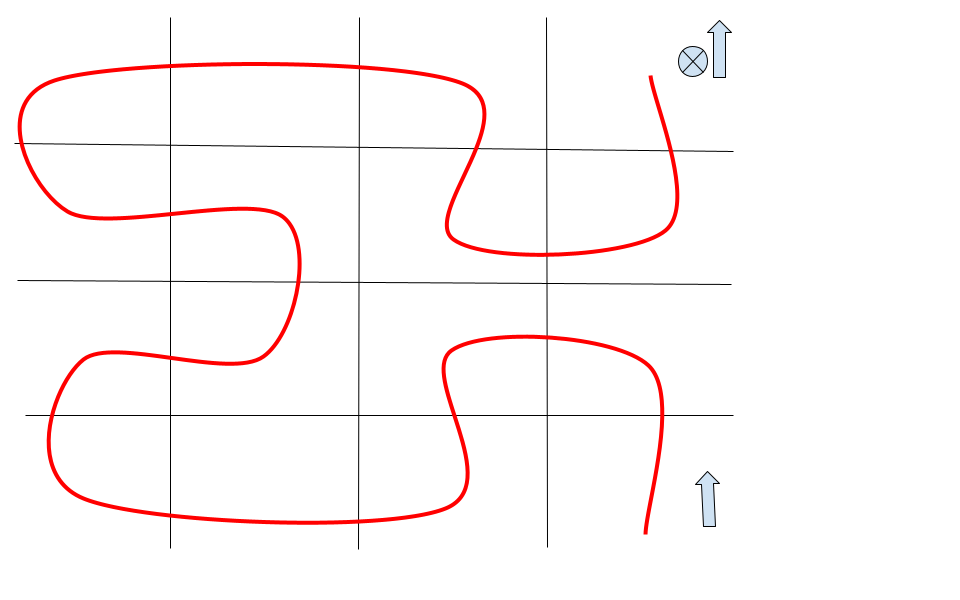
**Attachment 1. Puzzles Round one.**

Senses Silhouette

This will be a puzzle containing multiple shapes blacked out. Also they receive the original pictures in addition to pictures of multiple other things. They have to find out which silhouette matches with the pictures. This will give them a list of things that the brain will need, so it can deduce where it is.

Muscles/ Bones Sliding

They are given a sliding puzzle. If they complete a way, they will notice they are still missing a piece of the puzzle. They will receive this piece later on. The information that a piece is missing will be given to the brain. One piece from this puzzle will be on the ground, but has to be added later so the other pieces can slide.



Emotions Rebus

This Rebus will form a few sentences, this will give a recap about what happened until now.

The sentences:

It was really hot outside. You ate an ice cream cone at that shady place. You can’t remember anything after a few licks of your ice cream.

Organs Jigsaw

<https://nl.wikipedia.org/wiki/Midazolam> (Search in wiki for your own language or use the english one)

<https://www.qr-code-generator.com/a1/?gclid=CjwKCAiAzp6eBhByEiwA_gGq5E9zG5VKLmvio0oruhmAj_xBrTjLMxT6ccP4ErGMVlTFTpFTvsgHdBoCVOoQAvD_BwE&campaignid=9725198318&adgroupid=99974822872&cpid=8794173e-3373-43ee-aae4-c99e709be5f8&gclid=CjwKCAiAzp6eBhByEiwA_gGq5E9zG5VKLmvio0oruhmAj_xBrTjLMxT6ccP4ErGMVlTFTpFTvsgHdBoCVOoQAvD_BwE>



Use the links above to create a QR-code, print it, (be aware, the qr code only works for 7 days)

* The QR-code printed out, then glued on a piece of cardboard and then cut it into various pieces to make a jigsaw from it.

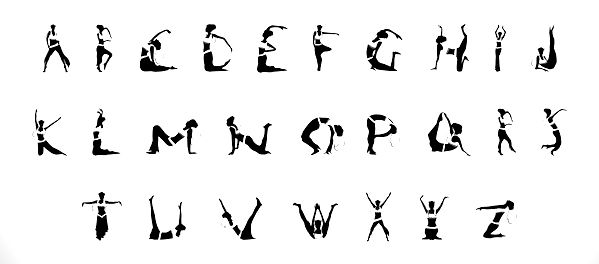
**Attachment 2. Puzzles Round 2**

Senses Sound

<https://www.mobilefish.com/services/morse_code/morse_code.php>

Muscles/ Bones Physical silhouette

<https://i.pinimg.com/originals/d1/1e/ef/d11eef65ca24e10952691d57727fbad2.jpg>



<https://i.pinimg.com/originals/42/f0/a8/42f0a8093090b7d5ae62eb3700ea74ad.jpg>



<https://www.shutterstock.com/shutterstock/photos/2629402/display_1500/stock-vector-an-alphabet-made-from-people-silhouettes-vector-2629402.jpg>



Depending on the group size there are two ways to approach it.

1. 2-4 students in the group

Print the letters for LIVER (print each letter on a A4)

Print also a few other letters, but these letters can’t be used to form other bodyparts.

They have to puzzle the word liver from it as solution.

1. 5+ students

Repeat the steps from 1. but the students have to enact the forms on the ground.

Emotions Hints assignment

This is not so much a puzzle, but in this round, the players of emotions have to look for hint cards, these hints can help the other groups. If they find a hint card, they give them to the brain and the brain relays this hint to the corresponding group. Each group receives 3 to 5 hints, depending on the groupsize. But only one of the hints holds the truth, the rest is misleading. But this information is hidden for all groups.

List of hints

T= True F= False

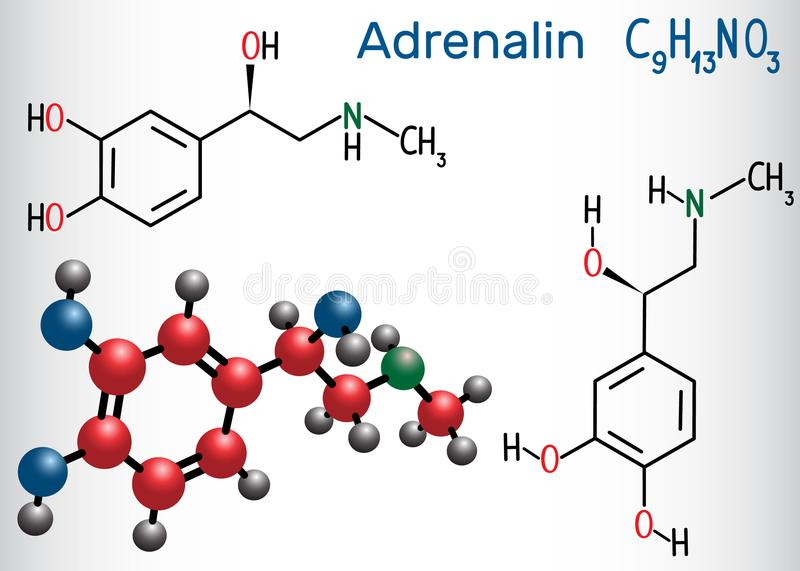
Senses

Bones/ Muscles

1. It is a five letter word T

Organs

Organs Atoms



Brain Ability to give hints is unlocked.

The four hints

Senses

Bones/ Muscles

Emotions

Organs

**Attachment 3. Puzzles Round 3**

Senses Maze puzzle

One maze (a map of the place), the first 10 directions have to be put in a directional lock, so they have to find the correct way in the maze and then put the first 10 directions into the lock to open it.

Muscles/ BonesMultiple Keys

One big ring with a lot of keys on it. Also they key fitting the lock. They have to find out which key fits the lock.

Emotions Substances

* 4 kind of substances
* A key in a plastic bag within one of the containers
* A lock that the key will fit in.

Organs Ratio Lego

One tower built of lego, containing 10 green, 20 blue,30 red, 40 white. The tower is randomly built. The organ team has to break it down and sort it per color. Then they have to count them and divide the numbers by ten. This gives a ratio. On the lock are a green dot, a blue dot, a red dot and a white dot in this combination. Red, Green, Blue, White. And thus a lock combination of 3-1-2-4

Brain combination Lock

In the last round there is a quiz about things that happened during your time.

Brain quiz

1. What is the place you’ve woken up in?

1.A clothing shop

2. A garage

3. A garden

4. A slaughterhouse

1. What word is spelled by the muscles and bones in round 2?

1. Kidney

2. Liver

3. Heart

4. Stomach

1. In what substance did emotions find the key?

1. In

2. In

3. In !

4. In

4. What is the name of the drugs that sedated you?

1. Propofol

2. Ketamine

3. Sodium thiopental

4. Midazolam