



Bringing the Community Together for Hospitalized Kids

Child Life Department
Palm Beach Children's Hospital

All About My fMRI

Come and learn about
fMRI with me



What is an fMRI?

An fMRI is a big camera that takes pictures of your brain activity. The doctor wants to see what parts of your brain activate or “light up” when you do certain things like talk or tap your fingers.

There is more oxygen in the part of the brain being used, and that is what the computer can see.

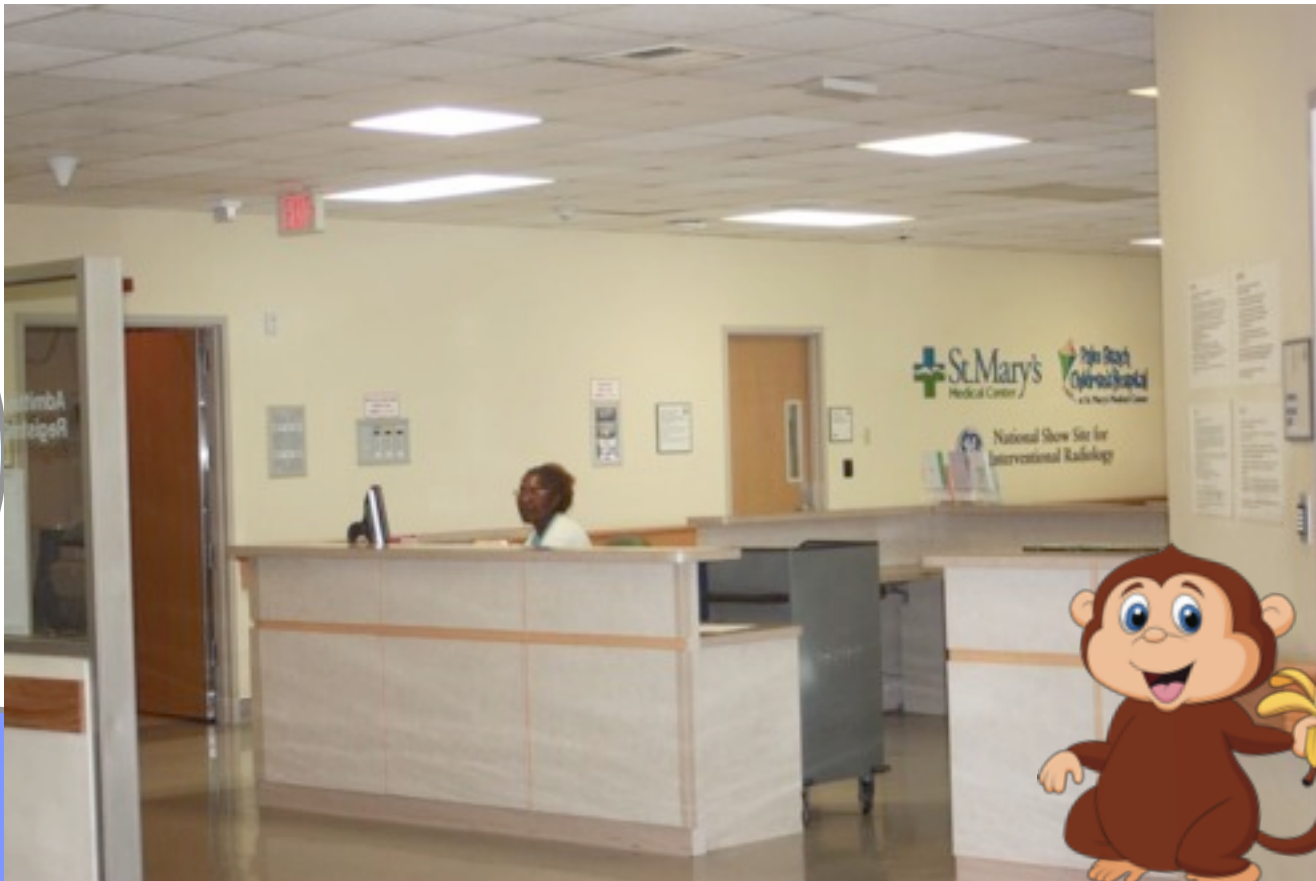


Where will I go for my fMRI?

Radiology

You will go to a place in the hospital called radiology

The people are very nice here😊



What will I have to do?

We are going to need your help with a few things!



**You will need to take off all jewelry
and remove metal out of your pockets
before having an fMRI.**



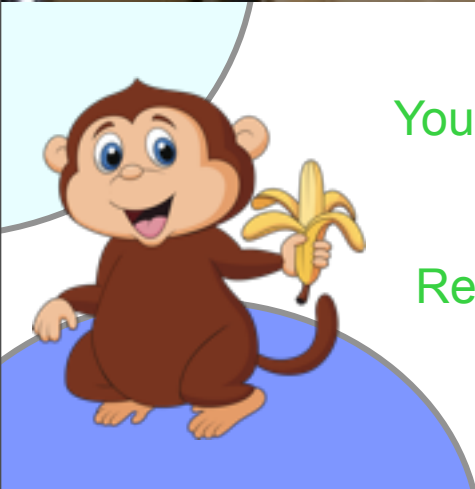
What will I see?

fMRI Machine



This is the fMRI camera!
The most important thing to remember is that the
camera will not touch or hurt you.

What else will I have to do?



You will have to lay down on a long bed and the nurse will put a helmet over your head.

Remember the helmet will not touch or hurt you and the nurse will always be with you.

Who will I meet?

The person who takes your picture will watch you through a window or TV screen, so you're never alone.



If you get scared or feel unsafe, you can press the button the technician gives you and they can talk to you or stop the machine.

What will I hear?

Loud noises



You may hear loud noises while the fMRI takes your picture. Some kids say it sounds like a tunnel, a rocket ship or a washing machine! It is very loud! But remember the machine will not hurt you.

What will I be doing during my fMRI?



The technician will ask you to do some tasks during your fMRI.

Don't worry...you can not mess up.

Just remember to listen very carefully to the instructions.

It can actually be pretty fun!

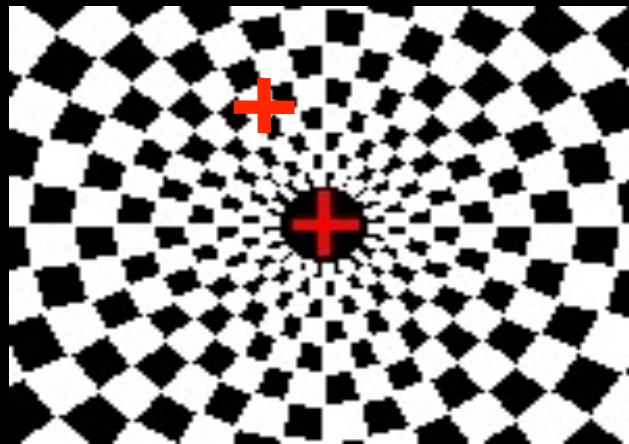
We will practice the tasks together first and then you can do them on your own later!

Visual Task

Always look at the small '+'.

The '+' may be the only item on the screen.

Sometimes the '+' will be on top of flashing checkerboards.



Are you ready to
practice with me?

In the real task I will not be here.



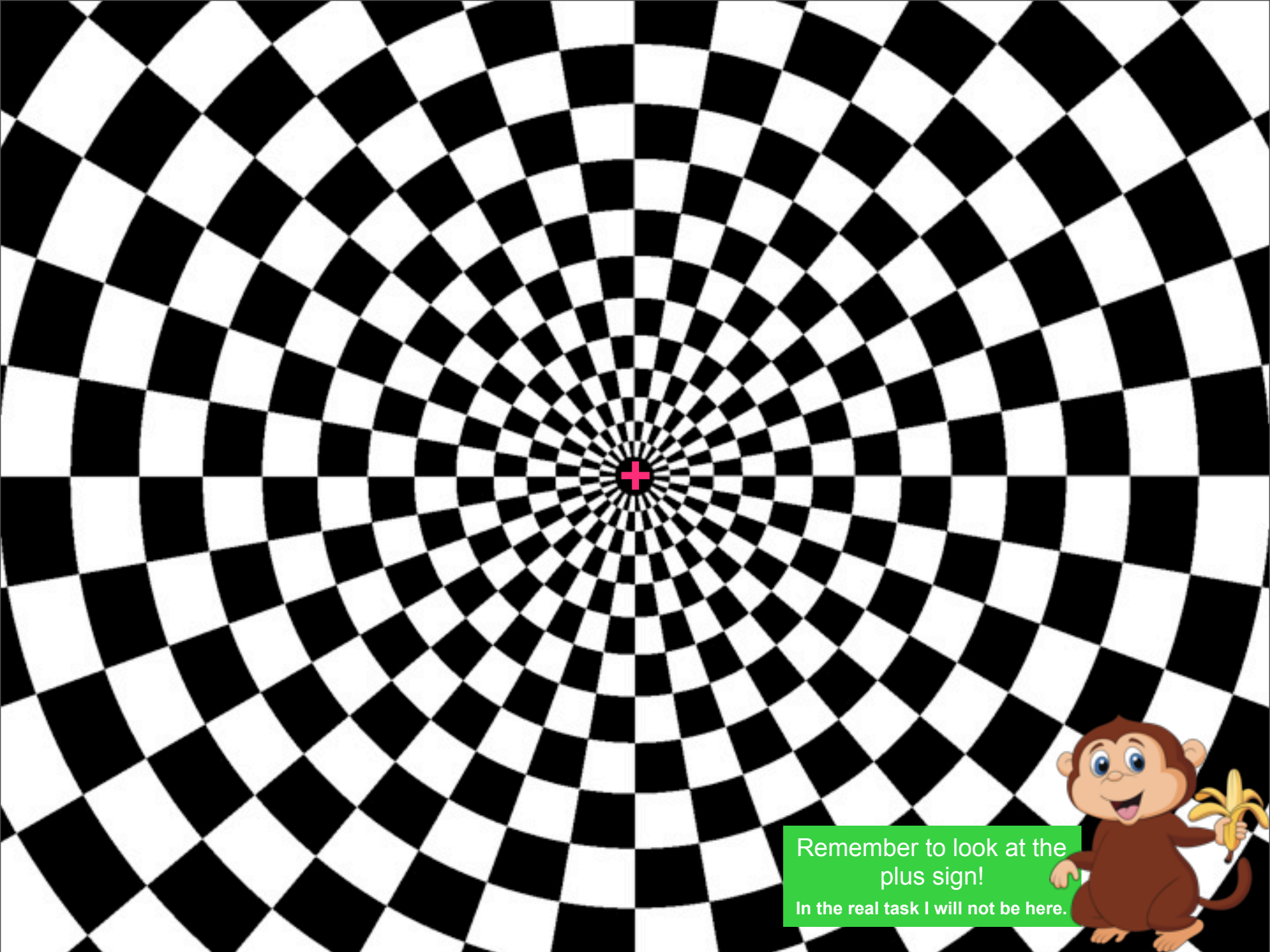
Keep looking at the '+' the whole time.



Remember to look at the
plus sign!

In the real task I will not be here.





Remember to look at the
plus sign!

In the real task I will not be here.



Visual Motor Task

There are 2 tasks:

– Motor:

- Tap your fingers while you see the picture of a hand.
- DO NOT move any other part of your body.



– Visual Flashes:

- After a while, the hand disappears and it is replaced by flashing checkerboards.
- Keep your eyes open and focus on the “+”



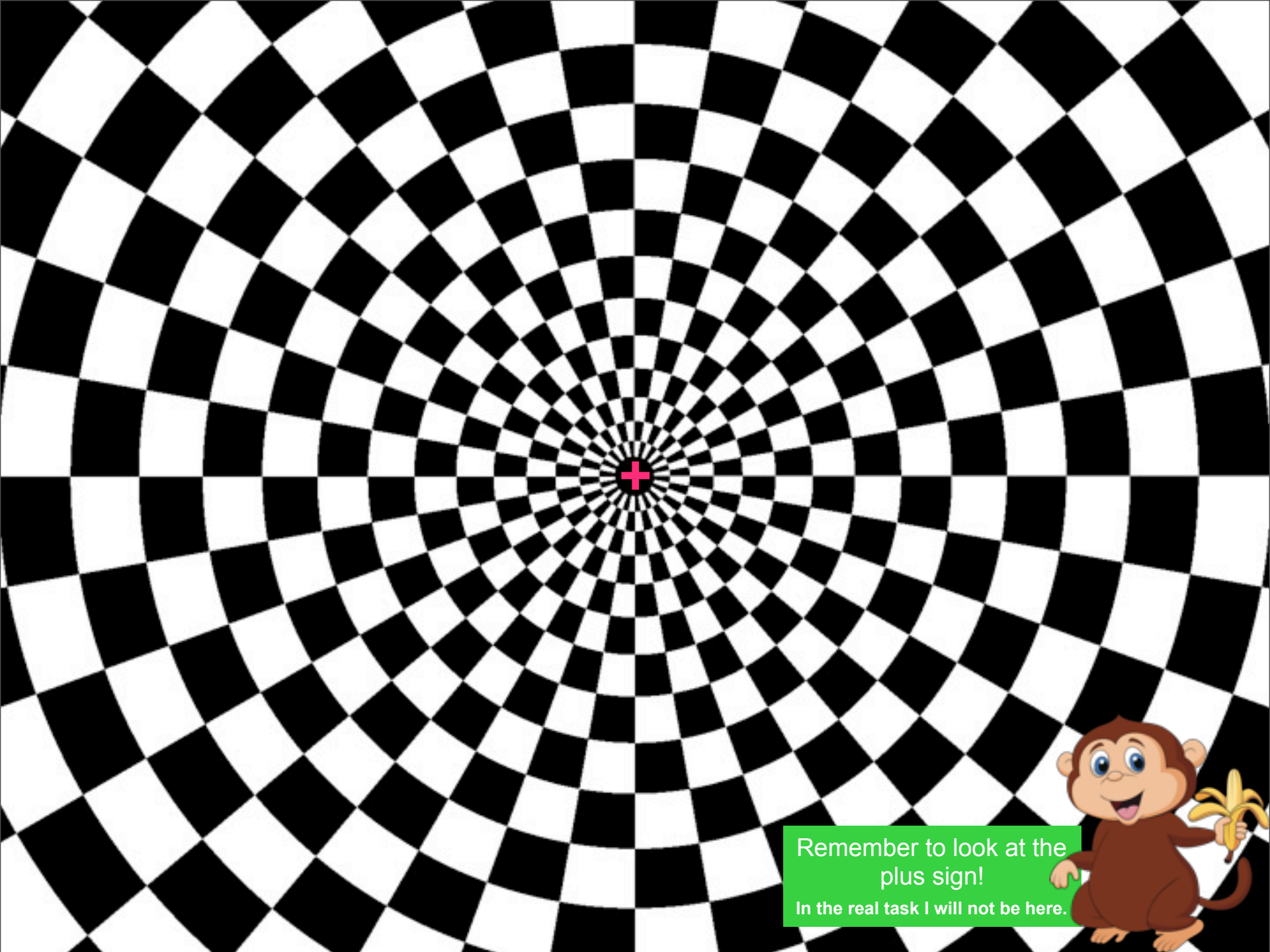
Try to keep your head still all the time.



When you see the hand,
tap your fingers!

In the real task I will not be here.





Remember to look at the
plus sign!

In the real task I will not be here.



Finger Tapping

When you see:



Rest

When you see:
fingers



Tap your



Keep your eyes open the whole time.

Keep the rest of your body still.



When you see the hand,
tap your fingers!
In the real task I will not be here.





This means stop tapping
your fingers.

In the real task I will not be here.



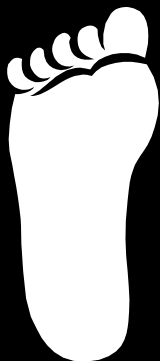
Foot Movement

When you see:



Rest

When you see:
toes.

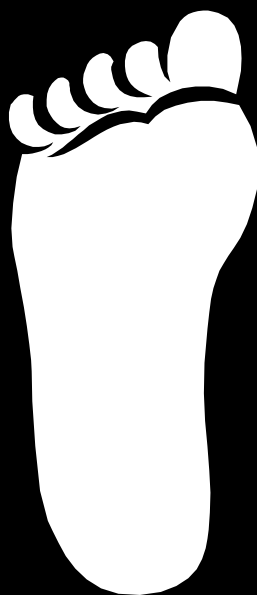


Wiggle your

Keep your eyes open the whole time.

Keep the rest of your body still.





When you see the foot,
wiggle your toes!
In the real task I will not be here.



Lip Movement

When you see:



Rest

When you see:
your lips.

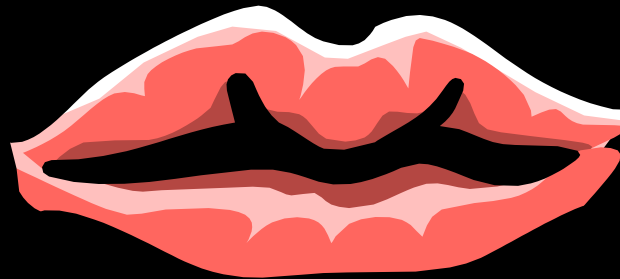


Move

Keep your eyes open the whole time.

Keep the rest of your body still.





When you see the
mouth, move your lips!
In the real task I will not be here.





This means stop moving
your lips.

In the real task I will not be here.



Auditory Task – Word Listening

First you will see a yellow cross like ‘+’
and only hear the scanner noise.

Then you will hear a series of words.

Listen to the words and try to
understand them. The words may not
be very clear, this is normal.

Keep looking at the ‘+’ the entire time.

Try to keep still.



Word Generation Task

Rest but keep your eyes open when you see a yellow cross '+'.
+

If you see a single letter on the screen, try to think of as many words as you can that begin with that letter.

Only think at the words, do not say them loud, do not move your mouth or your lips.

Try to keep still.





Look at the plus sign,
when you hear words
just listen to them.

In the real task I will not be here.



A

Look at the letter and try
to think of as many
words as you can that
start with the letter.

In the real task I will not be here.





Rest and look at the plus
sign.

In the real task I will not be here.



M

Look at the letter and try
to think of as many
words as you can that
start with the letter.

In the real task I will not be here.



Verb Generate Task

When you see ##### just rest:
do not think at any word or sentence.

When you see a noun (an object word):
think of a verb (action word) that you can associate with it.

Examples:

<u>See</u>		<u>Think</u>
Clothes	→	Wash
Cards	→	Play
Horse	→	Ride

Think the words silently to yourself do not say them out loud.
Do not move your mouth or your lips

Try to keep still.



#####

Rest, just look at the #
signs.

In the real task I will not be here.





Remember to look at the
plus sign.

In the real task I will not be here.



ball

When you see a word,
think about an action
that goes with it.

In the real task I will not be here.





Remember to look at the
plus sign.

In the real task I will not be here.



cup

When you see a word,
think about an action
that goes with it.

In the real task I will not be here.





Remember to look at the
plus sign.

In the real task I will not be here.



Sentence Completion Task

- Rest but keep your eyes open when you see a series of nonsense letters.

Example: Fkoniwe kasd iepaw akd _____dfe.

- If you see an English sentence, read it to yourself and think of a word that fits into the blank.

Example: Young cats are called _____.

- Don't speak out loud, don't move your mouth or lips.



Rdse sdkln seke
_____ leweo lskd .

When the words don't
make sense just look at
them.

In the real task I will not be here.





Remember to look at the
plus sign.

In the real task I will not be here.



People usually have
_____ toes.

When the words make
sense, complete the
sentence.

In the real task I will not be here.





Remember to look at the
plus sign.

In the real task I will not be here.



Little Bo Peep lost
her _____ .

When the words make
sense, complete the
sentence.

In the real task I will not be here.



Object Naming Task

Rest and relax when you see: ⊕

Try to relax and do nothing. Do not say to yourself the name of the object on the screen.

When you see the picture of an object like:

Think at the name of the object

Try to keep still.





Look at the plus sign, try
not to think about
anything, just rest.

In the real task I will not be here.





Think about the name of
this object.

In the real task I will not be here.





Think about the name of
this object.

In the real task I will not be here.



Great Job!
Thanks for learning

