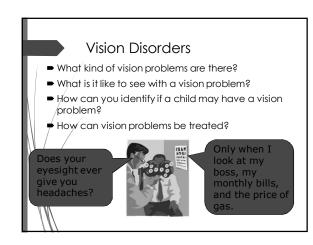
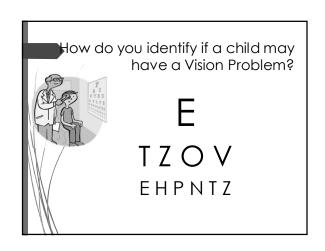


The pand was going to blay in the qark. Boddys father blayep the prum in the qanb. When the danb started to dlay, it pibnot sounp goop. The drum was off the deat. The danp stoqbed dlaying. Then Bopdys father lookep bown detween the drums. There was Boddy with a dig sqoon helding his father dlay the prums!

#### 80% of Learning happens through the **V**isual System ■ 70% of children with a learning disability in reading have some form of visual /impairment, such as ocular motor, perceptual, or binocular dysfunction. 18 million children in Do you see what I American have not mean? had an eye examination before entering school. In our minds, seeing is equated with understanding.





## **Snellen Acuity Testing**

- The ability to see "20/20" at distance
- Measured by the \$nellen chart
- Even if a child passes this test, it doesn't mean they don't need glasses or that they have good vision"





# Sight vs. Vision

- Sight is the ability to see an object clearly
- Good eyesight is the ability to see small things far away



- Vision is the ability to relate what has been seen to all senses and past experiences
- Visual perception is modified by the health, nutrition, fatigue and emotions of the individual.

# What are vision skills?

- VISUAL ACQUISITION: FIXATE, FOCUS, FOLLOW & FUSE
- Tracking the ability to follow a moving
- Fixation the ability to locate an object.
- ► Focus Ability to see clearly.
- ▼ Depth Perception ability to judge
- Binocularity the ability to use both eyes together and to fuse the information into one perception.
- Visualization The ability to form mental image



#### Eye Movements in the Classroom



- Loses place when reading; skipping words or lines.
- "Not paying attention, rushing."
- Avoids Reading
- Not "school-oriented"
- Has poor reading
- "Not bright, not interested"

- What is really happening
  - The eyes are jumping over words or even entire lines.
  - Eye fatigue and frustration are avoided when not reading. This is a clever adaptation.
  - When words are skipped, the text does not make sense.

### VISION

- Vision for Action
  - → Directing Reach and Grasp
  - Directing Eye Movements
  - **■** WHERE IS IT??
- Vision for Perception
  - Patterns
  - Colors
  - Places

  - Memory
  - WHAT IS IT??

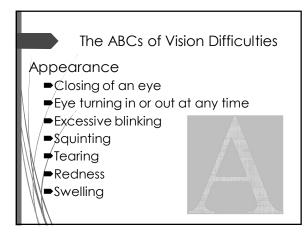


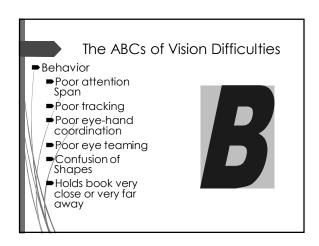
#### Discovering a Vision Problem

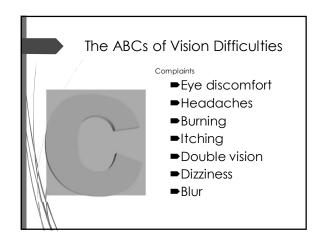
- A skilled observer can spot signs indicating that a child may have a visual problem.
- Your job is not to diagnose, but to know when to recommend a complete optometric examination. Note – This doesn't mean just a health check and glasses check! Not all examinations are the same!
- You want to suggest an office that 1) works with children and 2) tests for all visual problems, not just medical problems
  - For example, some doctors do not see a child until they are dilated. These medications paralyze the focusing muscle and prevent testing of near vision skills.

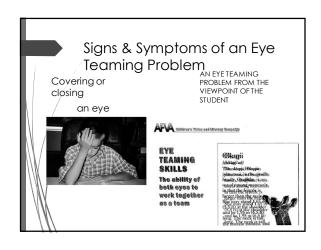


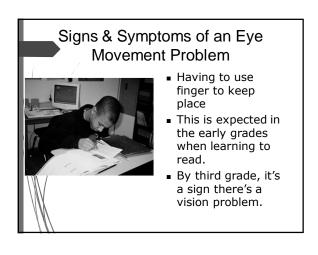


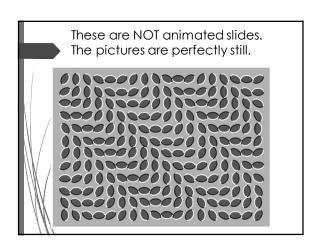








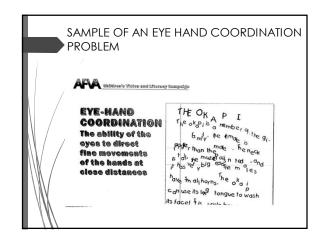




#### How your brain reads:

I cdnuolt blveiee taht I cluod aulacity uesdnatnrd waht I was rdanieg. The phaonmneal pweor of the hmuan mnid, aoccdrnig to a rscheear at Cmabrigde Uinervtisy, it deosn't mttaer in waht oredr the ltteers in a wrod are, the olny iprmoatnt tihng is taht the frist and isat ltteer be in the rghit pclae. The rset can be a taoti mses and you can sitll raed it wouthit a porbelm.

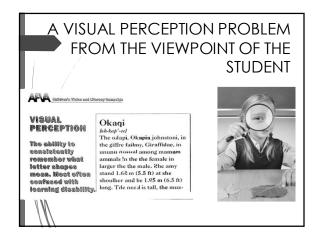
Tihs is beuseae the huamn mnid deos not raed ervey leter by istlef, but the wrod as a whohe. Amzanig huh? yaeh and I awlyas tghuhot sheling was ipmorantt! if you can raed tihs psas it on!!



# Visual Perception

- The ability to understand and remember visual information
- Includes many skills:
  form perception, visual
  discrimination, visual
  memory, visual
  sequential memory,
  visual closure, figure
  ground and
  directionality





# HOW STRONG ARE OUR VISUAL PERCEPTIONS?



Count every "F" in the following text:

FINISHED FILES ARE THE RESULT OF YEARS OF SCIENTIFIC STUDY COMBINED WITH THE EXPERIENCE OF YEARS...

