



Eye Screening Exam

Armenian EyeCare Interactive Qualifying Project

Please read all instructions before you begin performing each test.

Before Beginning Tests:

For theses tests you will need:

- A ruler
- A timer
- Follow calibration instructions

Calibration is necessary to get as accurate results as possible, ensure all tests are the correct size.

- Make sure the line below measures 2in or 5cm
- Keep this size for all tests

Symptom tracker

Purpose: To catch potential eye issues based on factors within school life

Circle 1 if symptom does occur and 0 if symptom does not occur A score of 3 or above. Seek further treatment options

- **0/1** Blurry vision at a distance (difficulty reading the board during class)
- **0/1** Blurry vision close up
- 0/1 Poor school performance
- 0/1 Difficulty in understanding/remembering what was read
- **0/1** Skipping words/lines
- 0/1 Frequently re-reading
- 0/1 Headaches/ eye strain when reading
- 0/1 Letter/number reversal
- **0/1** Words move on the page
- 0/1 Double vision
- **0/1** Difficulty with math
- **0/1** Eye burning/irritation

Distance Vision

Purpose: This test is for visual acuity at a distance greater than 3m or 10ft

- 1. Place the chart **3m** or **10ft** away from the participant
- Patient covers their left eye and read the smallest line of shapes the patient can see from left to right
- 3. Patient covers their right eye and read the smallest line of shapes the patient can see from right to left
- 4. With both eyes open read the smallest line of shapes the patient can see from left to right
- 5. The participant **passes** if they have no more than one mistake identifying the shapes, otherwise they **fail**

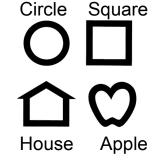
Size Scaling Chart

Distance (feet) 70 60 50 40 30 20 15 10 7 4

Distance(meters) 21 18 15 12 9 6 4.5 3 2 1

letter ht (mm) 31 27 22 18 13 9 7 4 3 2

Shapes to be Identified Key:



Reading Vision

Purpose: This test is for visual acuity for close distances such as reading

- 1. Place the chart **40cm** or **12in** away from the participant
- 2. Patient covers their left eye and read the smallest line of shapes the patient can see from left to right
- 3. Patient covers their right eye and read the smallest line of shapes the patient can see from right to left
- 4. With both eyes open read the smallest line of shapes the patient can see from left to right
- 5. The participant **passes** if they have no more than one mistake identifying the shapes, otherwise they **fail**

Size Scaling Chart

Distance (feet) 70 60 50 40 30 20 15 10 7 4 1

Distance(meters) 21 18 15 12 9 6 4.5 3 2 1 .3

letter ht (mm) 31 27 22 18 13 9 7 4 3 2

Shapes to be Identified Key:

Distance vision:











Reading vision:





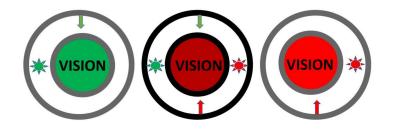


Eye-Teaming

Purpose: To test that both eyes are working together, resulting in sustained, single, and comfortable vision.

- 1. Take a pen, pencil, or similar object in size in shape
- 2. Hold the object so that the tip of the pen is about **20cm** or **8in** from the participant's face and aligned between their eyes
- 3. Ask the participant to tell you when they start to see double
- Slowly move the object towards their face and watch the eyes closely to see if one eye drifts outwards
- 5. Stop when the participant says they are seeing double, or when the pen is approximately **7cm** or **3in** away from the participant's face
- 6. The participant **passes** if they are seeing one object with both eyes pointing towards the object at **7cm** or **3in**, they **fail** if they see double or if one eye drifts outward

Depth Perception

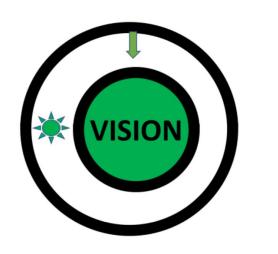


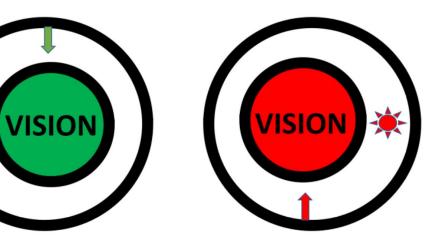
Purpose: To test how both eye work together to produce three dimensional images.

- 1. Hold device **0.5m** or **18in** away from the participant's face
- 2. Participant crosses their eyes to see the two circles overlapping in the middle
- 3. The participant **passes** if they see the circles overlapping, continue if the circles do not overlap

If the participant is having difficulty crossing eyes have the participant,

- 1. Place finger or pen directly in front of image
- 2. Participant focuses on their finger
- 3. Have them slowly bring their finger closer to face while staying focused on the finger
- 4. The participant passes if they see the circles overlapping, otherwise they fail





Eye Focusing

Purpose: To test how well the eyes move and work together.

- 1. Participant to holds the first set of numbers at a reading distance (about **40cm** or **12in**)
- 2. Hold the second, larger set of numbers about **3m** or **10ft** from the participant
 - Cover all but one of the numbers and ask the participant if they can see it clearly. If there is some blurriness, take a small step closer until they can see the number. Uncover the remaining numbers
- 3. Ask the participant to read **their** set of numbers aloud, moving from **left to right**
- 4. Ask the participant to read **your** set of numbers aloud in order from **left to right**
- 5. Ask the participant to read **their** set of numbers aloud in order from **right to left** (backwards)
- 6. Ask the participant to read **<u>your</u>** set of numbers aloud in order from **<u>right to left</u>** (backwards)
- 7. Repeat steps 4-7 one more time
- 8. Ask the following questions to the participant and take note of their answers
 - Did it get harder to read the numbers?
 - Did you notice your vision becoming blurry as you kept reading the numbers?
 - Do you feel dizzy or like you have a headache?
- 9. The participant has **passed** this test if all of the following is true:
 - They answered no to all of the questions above
 - You did not notice them struggling to adjust between the distances
 - The difficulty of the test did not seem to increase for the participant over time
 - The participant had no more than 3 errors

Hand to the participant

Eye-Tracking *Timer Required*

Purpose: To test the movement of the eyes when doing activities such as reading.

- 1. Participant reads the numbers in each line from left to right from **40cm** or **12in** away as quickly as possible, but without making any errors
- 2. Record the time the participant takes to complete the test
- 3. Record number of errors
 - Misspeaks on numbers are recorded as errors only if they are not immediately corrected before going on to the next number
- 4. The participant **passes** if they complete the test within 30 seconds and with no more than 2 errors, otherwise they **fail**

5		9	7	7	3		1
2	0					4	5
6		3			9		7
0	1		4		6	8	3

Color Vision

Purpose: To test for colorblindness.

- 1. Participant reads off the 5 shapes seen within the dot pattern
 - If the participant can not verbally identify the shape they can trace the shape or draw the shape in the air and that would still be a correct answer
- 2. Give about 5 seconds for the participant to answer for each image
- 3. Compare the participant's answers with the answer key below
- 4. The participant **passes** is if they correctly answer at least 4 out of 5 correct without significant struggling, otherwise they **fail**

Answers:

Row 1: Square, Triangle, Circle

Row 2: Circle, Square



