

## Stereo Acuity Test: Random Dot E (Optional)

Stereopsis measurement should be performed before the eyes are dissociated by tests such as the cover test.

### Ages

3 years through 8 years.

### Purpose

To check for problems with stereo acuity or depth perception.

### Description

Stereo acuity is checked by noting if the child is able to see the raised E while wearing polarized glasses.

### Equipment

- Random Dot E stereo card.
- Blank stereo card.
- Model E card.
- Polarized glasses.

### Screening Qualifications

Can be performed by screeners who have received the recommended training by the Minnesota Department of Health or equivalent. Refer to Assessment Tools on the [Vision Screening Forms, Tools and Materials webpage \(www.health.state.mn.us\)](http://www.health.state.mn.us).

### Facilities

A well-lit room, free of glare and distractions.

### Procedure

1. Place the polarized glasses on the child. Do not remove prescription glasses if the child wears them. If the polarized glasses are too large for the child, put a short piece of masking tape on the top of the glasses and use the other end of the tape to hold the glasses on the child's forehead.
2. When showing the child the test targets, be sure he/she keeps his/her head straight up, as tilting to one side or allowing the glasses to tilt on the nose will interfere with the test.

## STEREO ACUITY TEST: RANDOM DOT E (OPTIONAL)

3. At 20 inches away from the child, hold the sample model E card with the long sides on the top and bottom. Ask the child what the figure is. If the child cannot name it or has difficulty, point at the E figure on the card and say “that’s an E.”
4. With the polarized glasses still on, practice using the sample card and blank together by mixing up the cards behind your back and presenting the cards to the child. Have the child point to the card with the “E” on it. Do this four to five times.
5. Substitute the model E card with the stereo E card. Tell the child, “Sometimes, while wearing the magic glasses, you may see a ‘picture’ appear on the card.” Mix the blank card and stereo E card behind your back and present the cards to the child. Have the child identify the card they see a picture in. Do this five times.
6. Move back to 40 inches from the child and repeat step 4.

Note: Slightly move cards up and down (don’t tilt) to give optimal viewing of the stereo image.

### **PASS**

Student is able to point to the correct stereo E card at least 4 times at 20 inches and 40 inches.

### **Rescreen/REFER**

The child cannot distinguish the E figure in the stereo E card at all or can only see it when the card is approximately 20 inches or closer.

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01/2022

*To obtain this information in a different format, call: 651-201-3650.*