

### Stereopsis Screening Using the Lang-Stereotest II

#### Stereopsis defined

Stereopsis is the simultaneous visual perception of three-dimensional space resulting from the blending of the images from each eye. Testing for stereopsis is one of the requirements of the North Carolina Early Childhood Vision Care Program and is recommended for children in Kindergarten through 3<sup>rd</sup> grade or up to age 9.

#### Why stereopsis testing

- ❑ Conducted to determine if the eyes are working together
- ❑ When the eyes are not working together, the brain is unable to blend the separate images from each eye
- ❑ The child who fails the stereopsis screening is at great risk for amblyopia or loss of vision in one eye

#### Tests for stereopsis

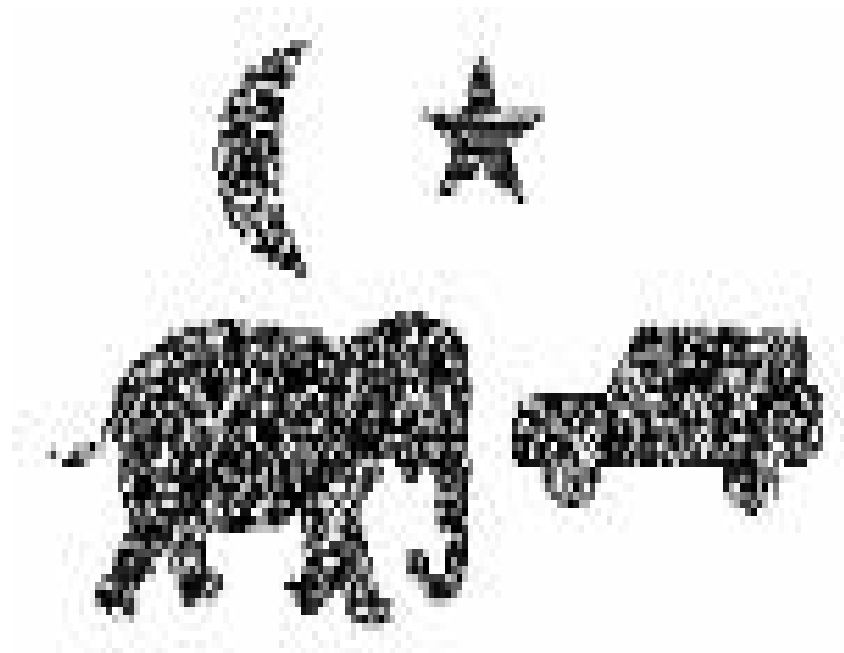
There are several tests for stereopsis. The Early Childhood Vision Care Program (ECVCP) recommends three tests:

- ❑ Titmus Butterfly
- ❑ Titmus Fly
- ❑ Lang-Stereotest II

The Lang-Stereotest II is recommended by Prevent Blindness North Carolina because it does not require stereo glasses, is simple to administer, and affordable.

#### The Lang-Stereotest II

- ❑ There are four figures on the card (shown below)
- ❑ The star is visible to all children, even if they do not have binocular vision
- ❑ The other figures (moon, elephant and jeep/truck) require binocular vision to see



## Administering the Lang-Stereotest II

- ❑ Ask child to name or point to figures on card
- ❑ If the child is able to see the figures or tries to point to or grasp the figures, this is evidence of stereo vision
- ❑ Touching the card does not alter its effectiveness
- ❑ Screen children with glasses, if applicable
- ❑ Test binocularly
- ❑ Screener should hold card
- ❑ Card should be displayed 16" inches from the child's eyes and at a right angle
- ❑ To prevent monocular clues, avoid moving the card in flip-flop movements

## Initial Lang-Stereotest II outcomes:

When screening young children for stereopsis, two outcomes are possible:

- ❑ Pass:
  - Child identifies the star and at least one other figure
- ❑ Refer:
  - Child identifies only the star and no other figure