

**TxCETP Course Component: The Working Human Eye**

This material is based on work supported by the National Science Foundation under Grant No. DUE 9987332.

## Appendix B

### Visual Acuity Testing Group Activity Report Form

Group Members Names:

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Fill in the Visual-Acuity Testing Results Table:

Student Tested	Vision Correction	Visual Acuity	Visual Acuity	Astigmatism		Near Point Accommodation	
	Yes or No	Left Eye	Right Eye	Left Eye	Right Eye	Left Eye	Right Eye

Use the data you collected above to answer the following questions.

1. If a person has 20/15 vision in their left eye and 20/20 vision in their right eye.

a. Which eye has better visual acuity? Why?

b. Does the person need to wear glasses or contact lenses to correct their vision? Why or why not? Explain.

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2. A group of people are standing in line with you to buy tickets to see the movie “Planet of the Apes,” when you hear a male voice behind you say, “Wow that’s really a cool poster. It’s kind of blurry in the middle but really blurry at the top and the bottom. Save my place in line, Beth, so I can get a closer look at it, OK?” Without staring at him, you think back to that exercise you did in Science Class.
  - a. Which of the following conditions would you guess apply to Beth’s date? (Check those that apply.)
    - He definitely has good taste in movies.
    - He is not wearing glasses.
    - He probably has a near-sighted condition in one or both of his eyes.
    - He probably has a far-sighted condition in one or both of his eyes.
    - He has glaucoma.
    - His visual acuity in one or both of his eyes must be causing astigmatism.
  - b. If this person’s place in line was 10 feet from the poster, estimate what his numerical visual acuity rating would be in either or both of his eyes
  
3. If the near point of accommodation for a ten-year old child is 9 cm.
  - a. How do you think this compares with the near point of an infant?
  
  - b. Why do you think this is so?
  
  - c. Explain an advantage an infant would have in having this accommodative ability?



