



Name:

Class:

Student worksheet

4.11 Things can go wrong with our eyes

Pages 90–91 and 205

Problems with sight

1 What is myopia?



2 What is myopia described as?

3 What causes myopia?

4 How can myopia be treated?

5 Draw a diagram of the eye focusing light rays before and after a lens is used (include the lens):

6 What is hyperopia?



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7 What is hyperopia described as?

8 What causes hyperopia?

9 How can hyperopia be treated?

10 Draw a diagram of the eye focusing light rays before and after a lens is used (include the lens).

11 What is the cause of colour blindness and what is the effect?

12 What is the cause of cataracts?

13 What do cataracts lead to?



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14 How can cataracts be treated?

15 What is the cause of astigmatism?

16 What can astigmatism lead to?

17 How can astigmatism be treated?

Extend your understanding

18 Choose one of the 3 vision problems below and answer the questions that follow.

esotropia (mistakenly called lazy eye), glaucoma, pterygium (surfer's eye)

a In which visual structure/s does the condition occur?

b What is the cause?

c What effects can it have on your sight?

d What is the treatment?

e Is there any way to manage the condition/limit ongoing effects?
