Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eye & Lenses 4.4 Pearson 9 Science

*Match the terms to their definitions, by writing the number of the correct definition in the box.*

|  |  |  |  |
| --- | --- | --- | --- |
|  | TERM |  | DEFINITION |
|  | Convex lens | 1. | Distance from the lens to its focus |
|  | Real image | 2. | The inability of the eye to focus on distant obkects because the eyeball is too short (short sighted) |
|  | Concave lens | 3. | Coloured part of the eye – contains dilator and sphincter muscle |
|  | retina | 4. | A part of eye that carries electrical signals to the brain |
|  | Iris | 5. | An image formed when rays of light do actually meet |
|  | Pupil | 6. | Muscles in eye that change the shape of the lens |
|  | Optic nerve | 7. | A lens that bulges outwards (leaf shape) |
|  | Accommodation | 8. | A lens that curves inwards |
|  | Myopia | 9. | Ability of the lens of the eye to change its shape to adjust its focus |
|  | Focal length | 10. | Membrane that covers the sclera --- outside of eye |
|  | conjunctiva | 11. | Opening in the eye that determines amount of light that enters the eye |
|  | Ciliary body | 12. | Tissue at the back of the eye consisting of cone and rod cells --- they convert light into electrical signal |

Year 9 Science – Physical Sciences

**Year 9 Physics Vocabulary Mini Quiz**

**Eye & Lenses 4.4 Pearson 9 Science**

*Write the correct term on the line next to each definition*

|  |  |  |  |
| --- | --- | --- | --- |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. | Distance from the lens to its focus |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2. | The inability of the eye to focus on distant obkects because the eyeball is too short (short sighted) |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 3. | Coloured part of the eye – contains dilator and sphincter muscle |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 4. | A part of eye that carries electrical signals to the brain |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5. | An image formed when rays of light do actually meet |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 6. | Muscles in eye that change the shape of the lens |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 7. | A lens that bulges outwards (leaf shape) |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 8. | A lens that curves inwards |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 9. | Ability of the lens of the eye to change its shape to adjust its focus |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 10. | Membrane that covers the sclera --- outside of eye |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 11. | Opening in the eye that determines amount of light that enters the eye |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 12. | Tissue at the back of the eye consisting of cone and rod cells --- they convert light into electrical signal |

|  |  |  |  |
| --- | --- | --- | --- |
| **7** | Convex lens Focal length | 1. | Distance from the lens to its focus |
| **5** | Real image Myopia | 2. | The inability of the eye to focus on distant obkects because the eyeball is too short (short sighted) |
| **8** | Concave lens Iris | 3. | Coloured part of the eye – contains dilator and sphincter muscle |
| **12** | Retina Optic nerve | 4. | A part of eye that carries electrical signals to the brain |
| **3** | Iris Real image | 5. | An image formed when rays of light do actually meet |
| **11** | Pupil Ciliary body | 6. | Muscles in eye that change the shape of the lens |
| **4** | Optic nerve Convex lens | 7. | A lens that bulges outwards (leaf shape) |
| **9** | Accommodation Concave lens | 8. | A lens that curves inwards |
| **2** | Myopia Accommodation | 9. | Ability of the lens of the eye to change its shape to adjust its focus |
| **1** | Focal length conjunctiva | 10. | Membrane that covers the sclera --- outside of eye |
| **10** | Conjunctiva Pupil | 11. | Opening in the eye that determines amount of light that enters the eye |
| **6** | Ciliary body Retina | 12. | Tissue at the back of the eye consisting of cone and rod cells --- they convert light into electrical signal |