

YEAR 10 PHYSICS REVISION CHECKLIST. Winter Examination.

As you begin your revision, complete this honestly to help you see where your priorities should lie for your revision. The target is eventually to get all your ticks in the left hand column.

| I CAN: | ☺ | ☹ |
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| I know that light carries energy from one place to another | | |
| I know how we see things in terms of rays | | |
| I know what "luminous" and "non-luminous" means | | |
| I can describe the type of shadows formed from a point source | | |
| I can describe the type of shadows formed from an extended source | | |
| I know what "umbra" and "penumbra" mean | | |
| I know the law of reflection | | |
| I know what the following mean; "normal", "incident" and "reflected" and can label them on a ray diagram | | |
| I know that light travels in straight lines | | |
| I know that light is refracted by different amounts when it enters an object with a different optical density (e.g. air and glass) | | |
| I can complete diagrams to show the direction of light | | |
| I know what "dispersion" is | | |
| I know that white light is made up of different colours of light | | |
| I can draw a diagram to show how white light can be dispersed | | |
| I know sound waves are caused by vibrations. | | |
| I know that sound does not travel through a vacuum. | | |
| I know that sound waves travel fastest through solids. | | |
| I know that sound waves travel at different speeds through different materials. | | |
| I know that a reflected sound is called an echo. | | |
| I can calculate the speed of sound using an echo. | | |
| I can draw and label how a sound wave appears on the screen of a CRO. | | |
| I know that a loud sound has a high amplitude and a quiet sound has a low amplitude. | | |
| I know that a high pitched note has a high frequency. | | |

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| I can write down the meanings of the terms amplitude, pitch and frequency. | | |
| I can write down the highest and lowest values of hearing range in a human. | | |
| I can give reasons as to why someone's hearing may be damaged. | | |
| I know that this damage can either be temporary or permanent. | | |
| I can write down ways in which noise pollution can be reduced. | | |