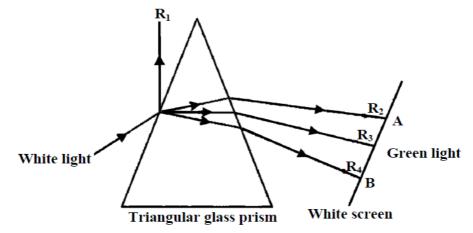
Revision Questions – First Year Physics

The diagram shows the evapor What is evaporation?	& &	
What?		@ @ @
What do water molecules have evaporate from liquid water?	e to gain in order to	
What?		
What causes the appearance of drinking straw in the drink in shown in the photograph? What?	the glass	
The conversions of chemical e occurs when you walk up a sta energy conversions and the co	airs. Give two more e	veryday examples of
1		
2		
The diagram shows the interaction between two magnets. Explain why this happens. (6)	* 1167	
Explain		

Renewable energies are shown in the picture.	Wind	Hydro / Tidal / Wave
Pick any two of the energies shown in the picture and name your selection.	大は	
Energy one		
Energy two		
(i) Give one advantage associated with each energy you've selected.Two different reasons must be given.	Biomass	Solar
Energy one		
Energy two		
(ii) Give one disadvantage associated with each energy you've selected.Two different reasons must be given.		
Energy one		
Energy two		
What causes the iron filings to form the pattern around the magnet seen in the photograph?		
What?		MARIN
How would you determine the position of the north pole of the magnet?		
How?		
Describe a simple experiment to show that sound	l is a form of	energy.
Describe		

A narrow beam (ray) of white light is directed onto a triangular glass prism as shown in the diagram.



The paths of four rays: R_1 , R_2 , R_3 and R_4 produced from this ray of white light are shown in the diagram.

(<i>i</i>)	Ray one (R_1) is deflected off the prism as shown in the diagram. What word is used to describe the deflection of ray one (R_1) ?	

- (ii) Rays two, three and four (R₂, R₃, and R₄) enter and leave the prism and change direction each time.
 What is this change of direction of light called? (3)
- (iii) A single ray of white light enters the prism and a band of light of many colours leaves the prism. Just three of the emergent rays are shown in the diagram.

The coloured rays are produced from the white light.
What is this separation of white light into coloured light called? (3)

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(iv) Give the colour of light that can be seen at the extreme ends **A** and **B** on the white screen. (6)

A ______ B _____

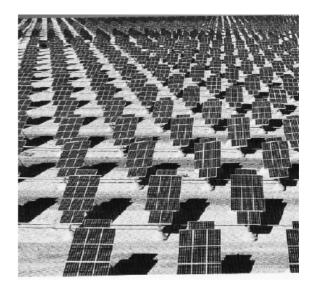
(v) Name a natural phenomenon that produces a band of coloured light from sunlight. (3)

Name

The photograph shows part of a very large array of photovoltaic cells that convert light, from the sun, directly into electrical energy.

Light, from the sun is a renewable source of energy.

Ireland only uses about 2% renewable sources to meet current energy needs.



(i)	Name two renewable energy sources, excluding sunlight, that are
	available in Ireland.

Source one _____

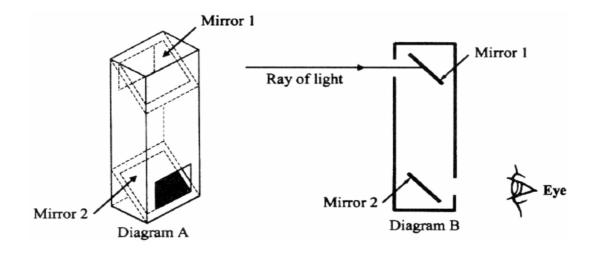
Source two _____

(ii) Give **two** benefits that Ireland would get from increasing the use of renewable energy sources to meet our energy requirements.

Benefit one

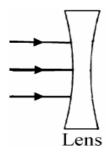
Benefit two ____

(i) Diagram A is of a simple periscope. Complete diagram B showing the reflections of the ray of light at both mirrors.



(ii)	Give one <i>use</i> for a periscope.	(3)
	Give	-
	diagram shows a bar magnet with metic field lines on both sides.	\
<i>(i)</i>	Label the <i>north pole</i> (N) <i>or</i> the <i>south pole</i> (S) of the magnet in the diagram.	
(ii)	What information is given by the arrows on the magnetic field lines? (3)	/
	What?	
	Describe, using a labelled diagram in the box provided, a simple experiment to show that <i>like magnetic poles repel each other</i> . (6	5)
(iv)	Name a <i>material</i> that is attracted by magnets. ((3)
(v)		(3)

The diagram shows three narrow beams of light (rays) hitting a lens. Draw **one** *ray* that passes through the lens *without refraction* and **one** *ray that is refracted* by the lens in the diagram.



Give <i>two <u>useful</u> energy conversions</i> that occur when the drill shown in the diagram is being used. (i)	
(ii)	
The photograph, taken from a satellite above the earth, shows the shadow of the moon on the earths surface. (i) Where does the <i>light</i> falling on the earths surface come from?	
Where?	
(ii) What property of light enables the formation of shadows?	Lunar Shadow
What?	
What causes an <i>echo</i> ?	
What?	