

Lesson 4 - Reflected images

Science - Biology - Key Stage 3

Light and Space

Miss Wickham



Recap questions

1. What is the line that is 90° to a mirror called? **N**_____
2. What causes a 'transverse' wave? **Vibrations that are _____ to the direction of travel**
3. What happens to light waves when they meet a mirror? **They will _____**
4. If the angle of incidence is 20° , what will the angle of reflection be? **The angle of reflection will be _____**
5. What is the "law of reflection"? **The angle of _____ = the angle of _____**



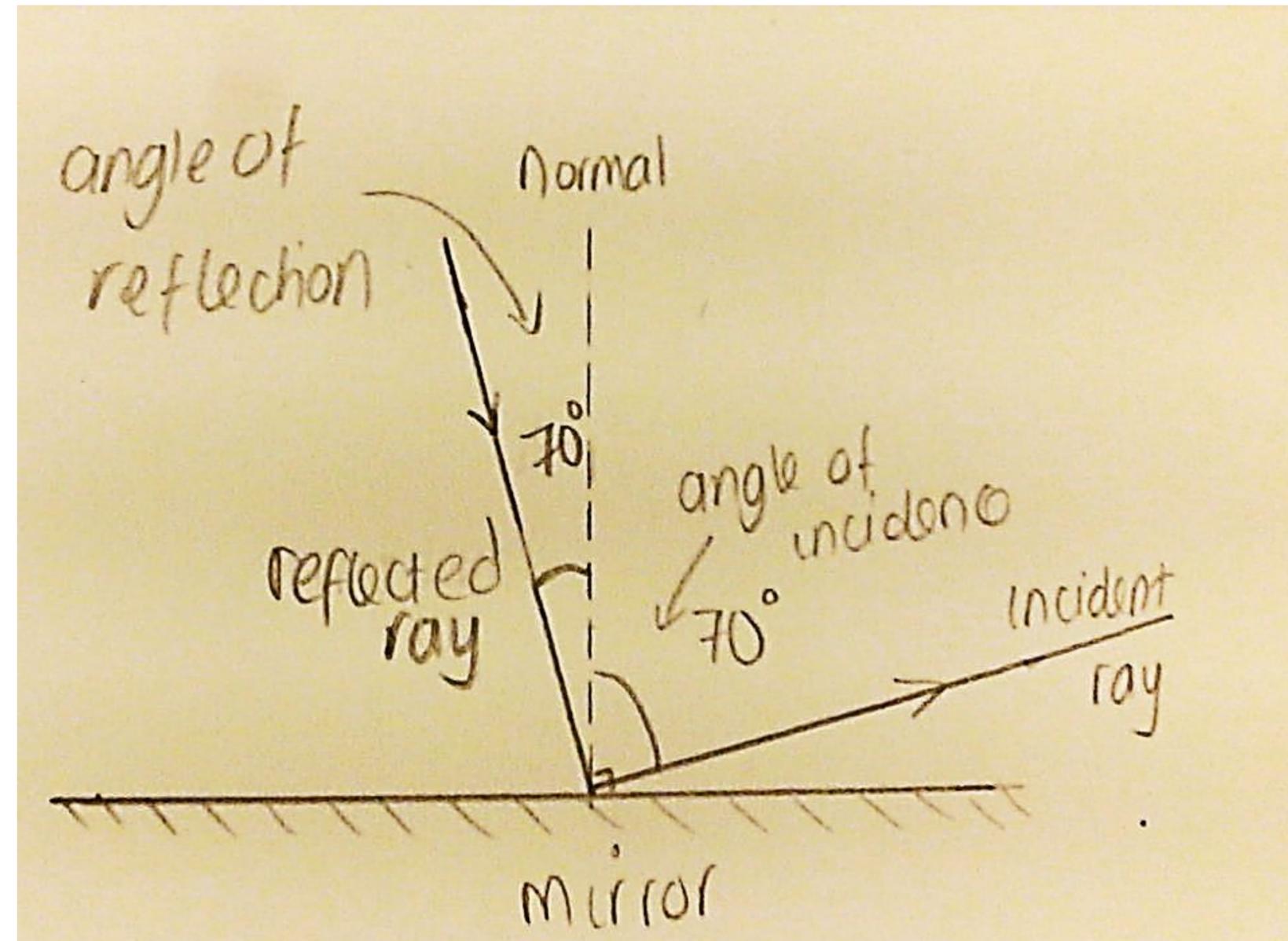
Drawing reflection diagrams

Task - put these steps in order for drawing a reflection diagram

- A** Label the diagram
- B** Draw a straight line with dashes to show it is your mirror
- C** Measure this angle from the normal line to draw your reflected ray
- D** Draw an incident ray towards the mirror
- E** Using your protractor, draw a line at 90 degrees to the mirror line
- F** Measure the angle from the normal line round to your incident ray



Task - spot the mistakes on the following reflection diagram

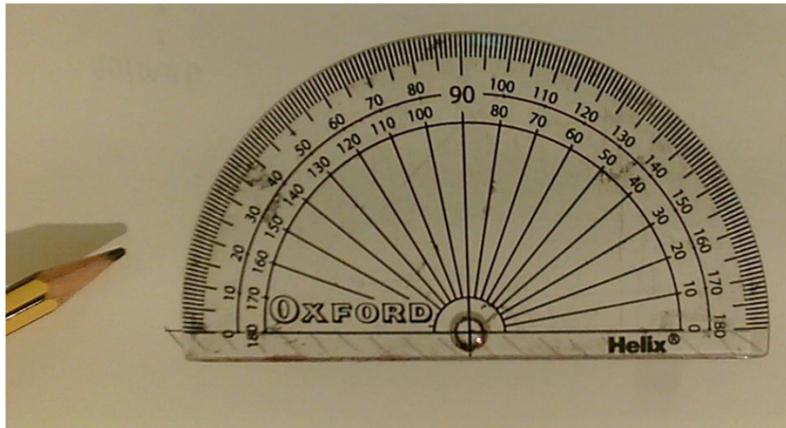


Draw reflection diagrams where the angle of incidence is:

A. 45 degrees

B. 75 degrees

C. 10 degrees



Make sure to follow the steps but this time measure the angle from the normal line rather than a random angle.

Make sure to label the diagram



Properties of a mirror image

1. Write your name in capital letters down the page.
2. Place a mirror down the page
3. Draw how and where the writing appears on the other side of the mirror.

Y		Y
O		O
U		U
R		Я
N		И
A		A
M		M
E		E



Write a paragraph to describe the properties of the reflected image shown in the picture.

Include:

- Properties discussed in the previous slides**
- What type of reflection is occurring and explain how you can tell.**

