Weekly learning pack

Year 6

English

Task 1

Rewrite these compound sentences to include lists, introduced with a colon and punctuated with semi-colons.

1) On our trip to the United States, we plan to visit Boston in Massachusetts, Austin in Texas and Tucson in Arizona.

2) There were three breakfast options: First, you could have egg, toast and bacon. Another option was bacon or egg, sausage and beans or finally sausage, bacon and beans.

3) After it snowed, the children found different games they could play. One group built snowmen. Some children made snow angels on the ground. Other children sledged down some of the hills.

4) Last month I saw three great films. First we watched The Lion, the Witch and the Wardobe. The next film was Snow White and the Seven Dwarves. The last film we watched was The Good, the Bad and the Ugly.

Task 2

Read the sentences below and circle the words which are missing hyphens.
Write the hyphenated word on the line underneath.

1) My uncle lives in a twenty storey building.

2) We watched in terror as the man eating tiger prowled around the edge of the camp.

3) Last week, Gina finished her part time job at the pizza restaurant.

4) Make sure you use a non stick tin when you are ready to bake that cake!

5) The girl with jet black hair won the spelling competition.

Complete these sentences.

1) As it's a bright, sunny day it might be a great time to visit the beach. On the other hand

2) My brother loves reading. In contrast

3) The train was running late. As a consequence

4) Aunt Flo fixed the steering on my bike. After that

5) I had smudged some of the paint of my portrait of Mr. Scarborough. Despite this

Task 3

Use each of these verbs in sentences. Circle the subject in your sentence and underline the object.

found made rode sold watched

1)

2)

3)

4)

5)

Task 4

Challenge

Write two sentences about each of these pictures. Each sentence should include one of the features that is listed next to the picture.

Passive voice

Semi-colons within a list

1)

2)

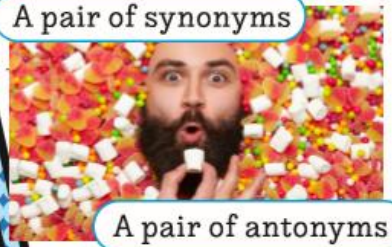
Semi-colon to join two independent clauses

Formal language

1)

2)

A pair of synonyms



A pair of antonyms

1)

2)

Maths

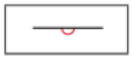
For the following maths slides, there is an online lesson and answers that you can find at:

https://whiterosemaths.com/homelearning/year-6/

Task 1

Introduce angles

1 Match each angle to its picture and number of right angles.

90°		1 right angle
180°		4 right angles
270°		3 right angles
360°		2 right angles

2 Complete the sentences.

There is ☐ right angle in a quarter turn.

A quarter turn is ☐ degrees.

There are ☐ right angles in a half turn.

A half turn is ☐ degrees.

There are ☐ right angles in a three-quarter turn.

A three-quarter turn is ☐ degrees.

There are ☐ right angles in a full turn.

A full turn is ☐ degrees.

3 **a)** Jack is facing the direction that the arrow is pointing.

Jack →

He turns a half turn.

Draw on the diagram to show the direction he is now facing and the angle he turned through.

How many degrees did he turn through? ☐

b) Dora is facing the direction that the arrow is pointing.

← Dora

She turns a quarter turn clockwise.

Draw on the diagram to show the direction she is now facing and the angle she turned through.

How many degrees did she turn through? ☐

c) Teddy is facing the direction that the arrow is pointing.

↑ Teddy

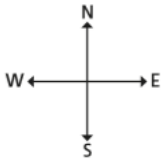
He turns a three-quarter turn.

Draw on the diagram to show the two directions he could now be facing and the angles he could have turned through.

How many degrees did Teddy turn through? ☐

Task 1

4 Here is a compass.



a) Huan is facing north.
He turns half a turn.
What direction is he facing now? _____

b) Whitney is facing east.
She turns 180°.
What direction is she facing now? _____

c) Alex is facing west.
She turns a quarter turn clockwise.
What direction is she facing now? _____

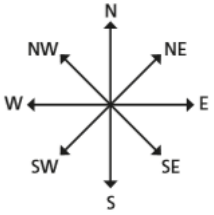
d) Amir is facing west.
He turns 90° anticlockwise.
What direction is he facing now? _____

e) Kim is facing south.
What angle does she need to turn through to face east?

_____

Is there more than one answer?

5 Here is another compass.



a) Dexter is facing north-east.
He turns half a turn.
What direction is he facing now? _____

b) Esther is facing south-west.
She turns 270° anticlockwise.
What direction is she facing now? _____

c) Mo is facing south-west.
He turns, and he is still facing south-west.
How many degrees did he turn through? ☐

6 Complete the statements.

a) $\frac{1}{2}$ of a full turn = ☐

b) $\frac{1}{4}$ of a full turn = ☐

c) $\frac{3}{4}$ of a full turn = ☐

d) $1\frac{1}{4}$ turns = ☐

e) $5\frac{3}{4}$ turns = ☐

7

How many degrees did Eva turn through? ☐

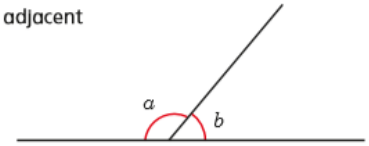
8 Nijah looks at the clock at the start and at the end of her maths lesson.

How many degrees did the minute hand turn through during the lesson? ☐

Task 2

Calculate angles

1 Two angles, a and b, are adjacent on a straight line.



a) Measure angles a and b.

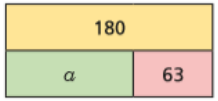
$a =$ ☐ $b =$ ☐

b) What is the total of the two angles? ☐

c) Complete the sentence.

Adjacent angles on a straight line _____

2 **a)** Complete the fact family for the bar model.



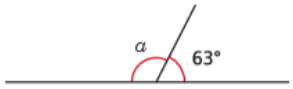
$a + 63 =$ ☐ $180 -$ ☐ $= a$

$63 +$ ☐ $=$ ☐ $180 - a =$ ☐

b) Tick the calculation in part a) that helps you work out the value of a.

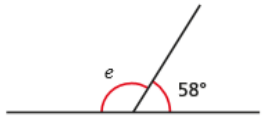
c) Work out the value of a. $a =$ ☐

d) How does the bar model help you to calculate angle a?



3 Work out the unknown angles.

a)

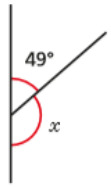


$e =$ ☐

b)

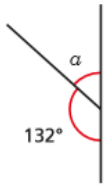
$g =$ ☐

c)



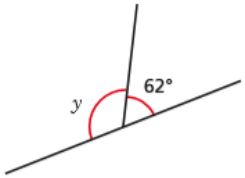
$x =$ ☐

d)



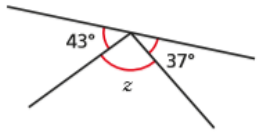
$a =$ ☐

e)



$y =$ ☐

f)



$z =$ ☐

4 Dora is facing in the direction shown by the arrow.

She does a full turn clockwise.

a) Show Dora's turn on the diagram.

b) How many degrees did Dora turn through? ☐

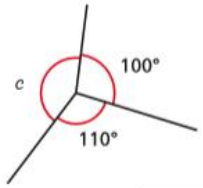
c) Use your answer to part b) to help you complete the sentence.

Angles around a point _____

Task 2

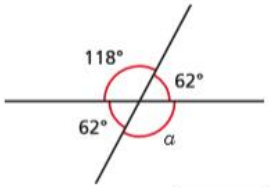
5 Work out the unknown angles.

a)



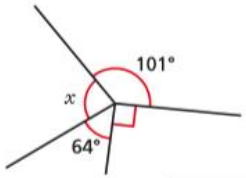
$c =$ ☐

c)



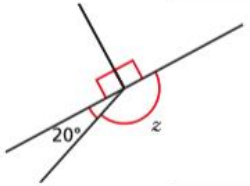
$a =$ ☐

b)



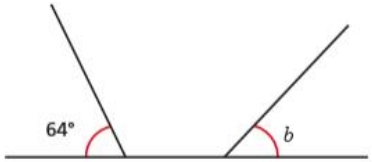
$x =$ ☐

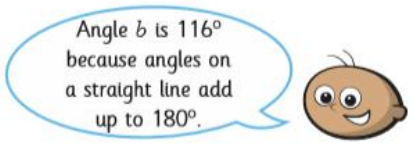
d)



$z =$ ☐

6





Do you agree with Tommy? _____

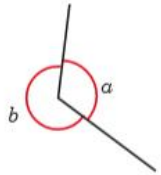
Explain your answer.

_____

_____

7 Use the information to work out the unknown angles.

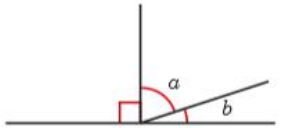
a) Angle a is half the size of angle b.



$a =$ ☐

$b =$ ☐

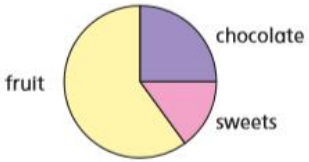
b) Angle a is four times the size of angle b.



$a =$ ☐

$b =$ ☐

8 The pie chart shows some children's favourite snacks.



A quarter of the children said chocolate was their favourite snack.

Five times as many children voted for fruit as voted for sweets.

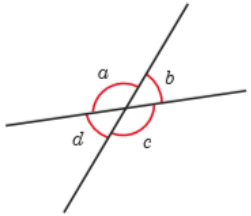
Work out the size of the angle for each sector in the pie chart.

chocolate ☐ sweets ☐ fruit ☐

Task 3

Vertically opposite angles

1 The diagram shows four angles formed by two straight lines.



a) Measure the sizes of the angles.

$a =$ ☐ $b =$ ☐ $c =$ ☐ $d =$ ☐

b) What is the total of angles a and b? ☐

Explain why.

_____

Do any other pairs of angles have this same total?

c) Angles a and c are vertically opposite angles.

What do you notice about the sizes of angles a and c?

_____

d) Angles b and d are also vertically opposite angles.

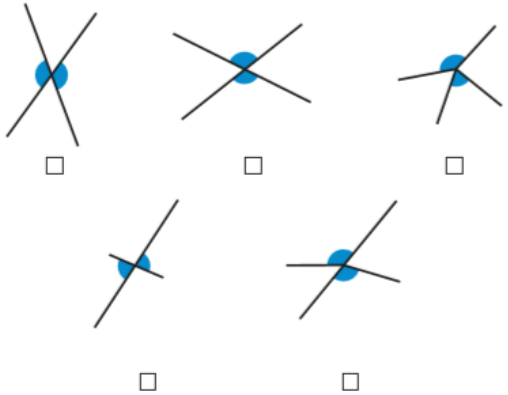
What do you notice about the sizes of angles b and d?

_____

e) Complete the sentence.

Vertically opposite angles _____

2 Tick the pairs of angles that are vertically opposite.



☐ ☐ ☐ ☐ ☐

Compare answers with a partner.

3 Work out the sizes of the unknown angles.

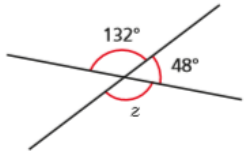
Give reasons for your answers.

a)

$y =$ ☐ because _____

_____

b)



$z =$ ☐ because _____

_____

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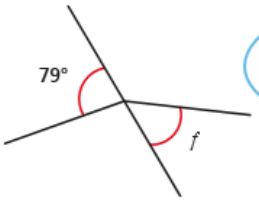
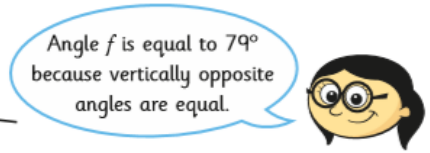
Task 3

4 Annie is working out the size of angle f.





Do you agree with Annie? _____

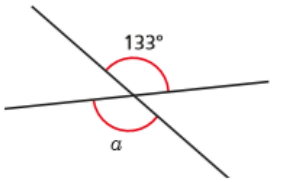
Explain your answer.

_____

_____

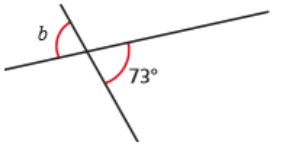
5 Work out the unknown angles.

a)



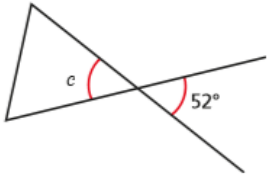
$a =$ ☐

b)



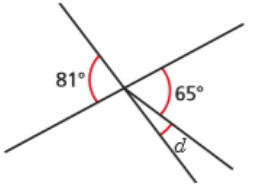
$b =$ ☐

c)



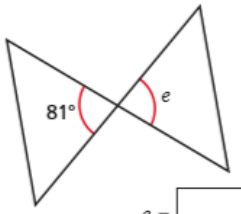
$c =$ ☐

d)



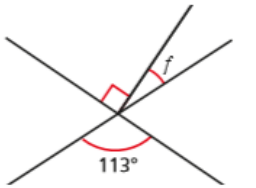
$d =$ ☐

e)



$e =$ ☐

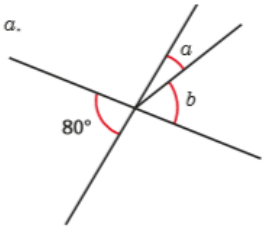
f)



$f =$ ☐

Talk about your reasons with a partner.

6 Angle b is three times the size of angle a.

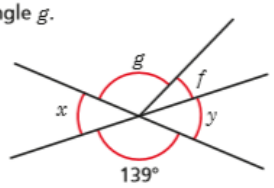


Work out the sizes of angles a and b.

$a =$ ☐ $b =$ ☐

7 Angle f is one quarter of the size of angle g.

Angle f is 28°.



Are angles x and y vertically opposite? _____

Explain your answer.

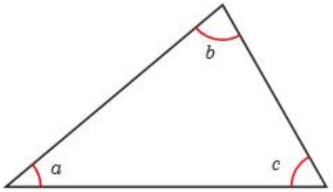
_____

_____

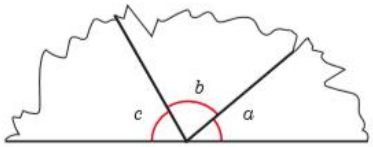
Task 4

Angles in a triangle

1 Here is a triangle.



a) The three vertices are torn off the triangle and arranged on a straight line.



What is the sum of the three angles? ☐

How do you know?

_____

b) Now measure the sizes of angles a, b and c in the triangle.

$a =$ ☐ $b =$ ☐ $c =$ ☐

c) What is the total of angles a, b and c? ☐

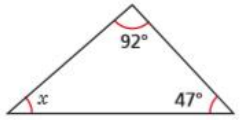
d) Complete the sentence.

Angles in a triangle _____

2 Work out the sizes of the unknown angles.

Give reasons for your answers.

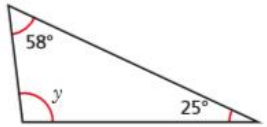
a)



$x =$ ☐ because _____

_____

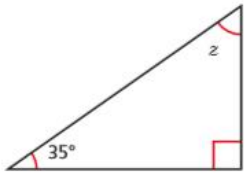
b)



$y =$ ☐ because _____

_____

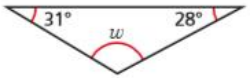
c)



$z =$ ☐ because _____

_____

d)



$w =$ ☐ because _____

_____

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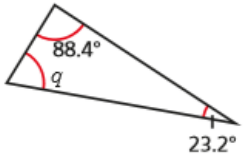
Task 4

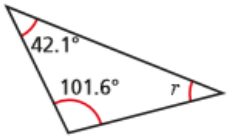
3 Work out the unknown angles.

a)



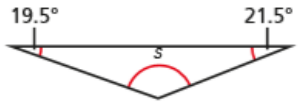
$q =$ ☐

b)



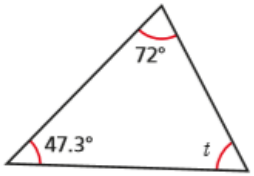
$r =$ ☐

c)



$s =$ ☐

d)



$t =$ ☐

Discuss your reasons with a partner.

4 **a)** Two angles in a triangle are 42° and 57°.

What is the size of the third angle?

☐

b) Two of the angles in a triangle are 12°.

What is the size of the third angle?

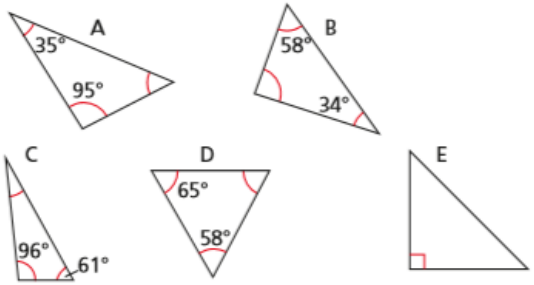
☐

c) One of the angles in a triangle is 38°. Another angle is twice the size of the first angle.

What is the size of the third angle?

☐

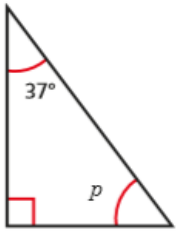
5 Sort the triangles into the table.

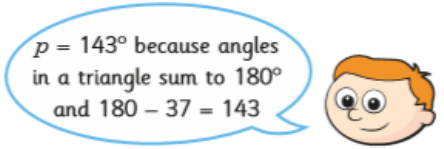


0 acute angles	1 acute angle	2 acute angles	3 acute angles

Are any of the columns empty? Why?

6





Do you agree with Ron? _____

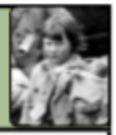
Explain your answer.

Curriculum (History)

Task 1

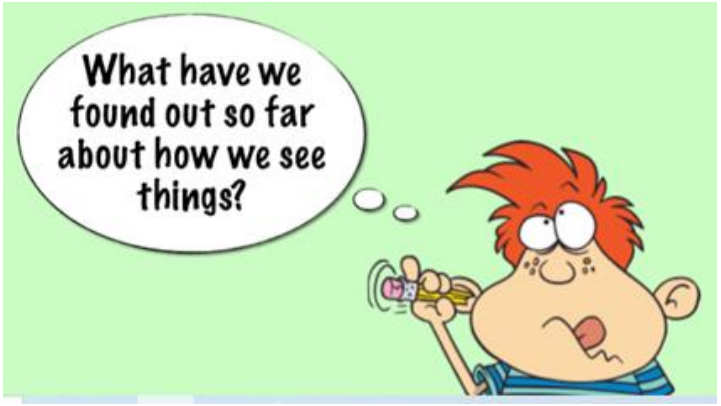
What do you think were the positive and negative sides to evacuation?
Write a list in the table below giving reasons for your choices.

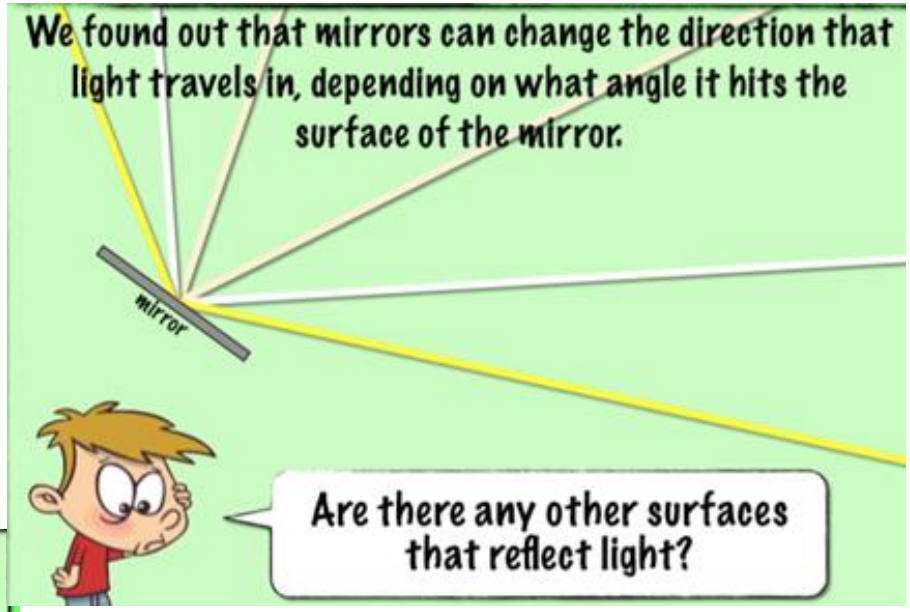
Evacuation – the positives	Evacuation – the negatives

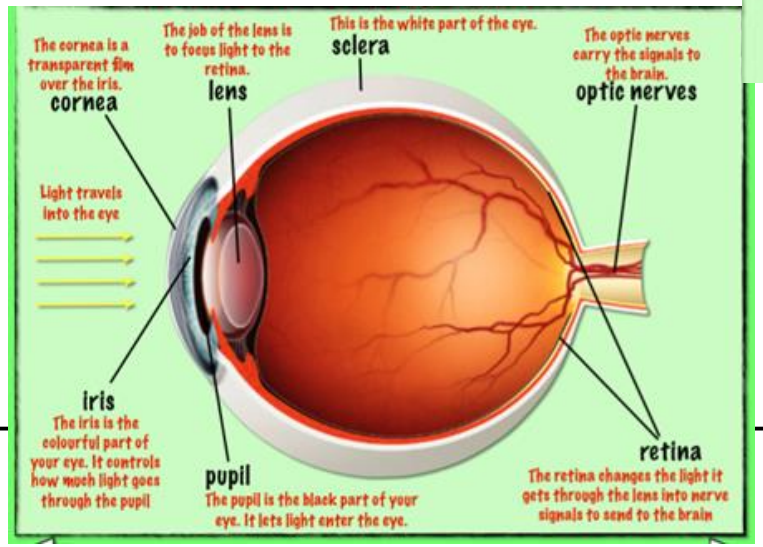


Science

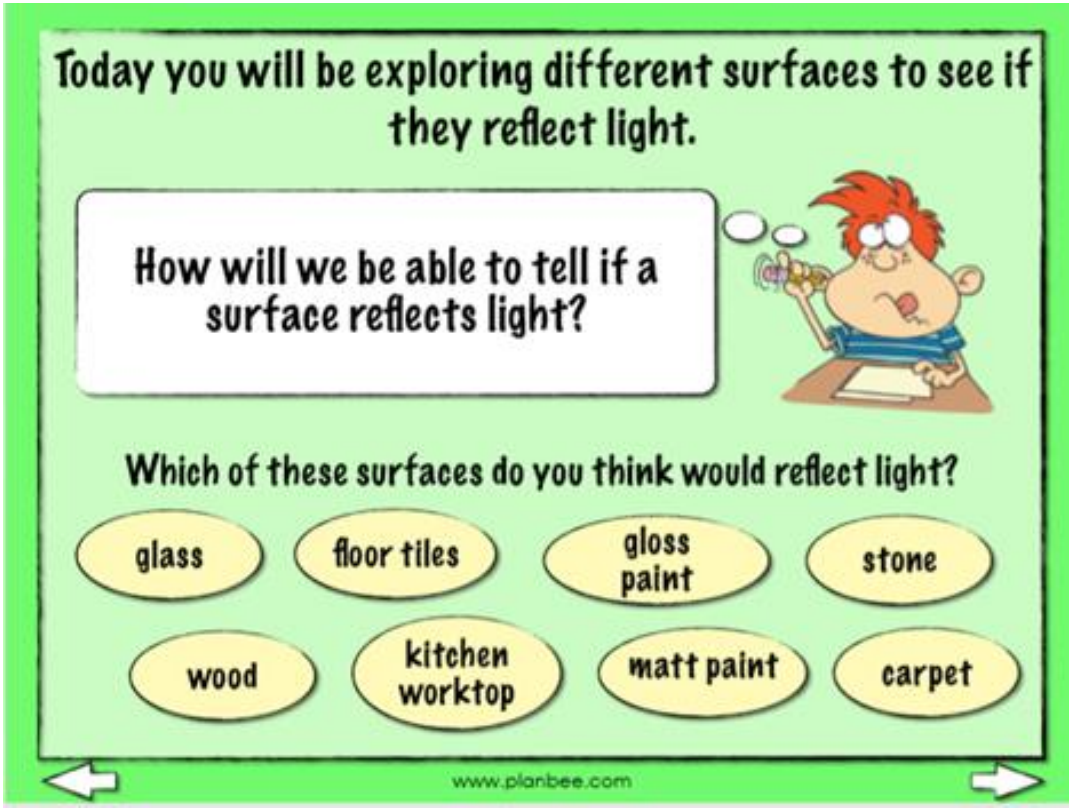
Task 1


What have we found out so far about how we see things?


We found out that mirrors can change the direction that light travels in, depending on what angle it hits the surface of the mirror.
mirror
Are there any other surfaces that reflect light?


The cornea is a transparent film over the iris.
cornea
The job of the lens is to focus light to the retina.
lens
This is the white part of the eye.
sclera
The optic nerves carry the signals to the brain.
optic nerves
Light travels into the eye
iris
The iris is the colourful part of your eye. It controls how much light goes through the pupil
pupil
The pupil is the black part of your eye. It lets light enter the eye.
retina
The retina changes the light it gets through the lens into nerve signals to send to the brain

Task 1



Make a prediction about the surfaces on this slide?

Task 1

All surfaces reflect light to some degree. Some surfaces reflect a lot of light, some surfaces reflect very little light. If a surface didn't reflect any light you wouldn't be able to see it because it is the light's reflection that travels to your eyes in order to see objects. All surfaces also absorb light. The less an object reflects light the more it absorbs it instead. Transparent objects allow light to travel straight through them.

A good way to check how well a surface reflects light or not is to see if you can see yourself reflected in the surface. If you can, the surface reflects a lot of light. If you can't the surface absorbs a lot of light.

What kind of surfaces do you think will absorb a lot of light?

What kind of surfaces do you think will reflect a lot of light?

Task 1

Lots of surfaces reflect enough light to be able to see your reflection in the surface. Test all the surfaces below. Can you see a reflection?

Surface	Yes, I can see a reflection	No, I can't see a reflection
Window		
Carpet		
Table top		
Wall		
Spoon		
Door		
Mirror		
Plastic ruler		
Gloss paint		
Sink		
Book		
Water		

Now investigate these surfaces, then answer the questions.

What similarities are there between all the surfaces you COULD see a reflection in?

What similarities are there between all the surfaces you COULD NOT see a reflection in?

What does this tell you?

RE

Task 1

L.O. To understand Muslim beliefs

Does belief in Akhirah (life after death) help Muslims lead good lives?
This is the question you are going to be able to answer at the end of this unit.
Who was Muhammad?
Watch the following clips and then complete the task on the following slide. The first one is about Muhammad and the second explains that the Qu'ran instructs Muslims how they should worship God and how they should behave towards each other.
https://www.bbc.co.uk/bitesize/clips/z9b9jxs
https://www.bbc.co.uk/bitesize/clips/z4fgkqt

Task 1

What does it look like for a Muslim to put other people in front of him/herself? Write your ideas under the heading ‘putting others first’.

What does it look like for a Muslim to put God in front of him/herself? This relates to how Muslims should worship God. Write your ideas under the heading ‘putting God first’