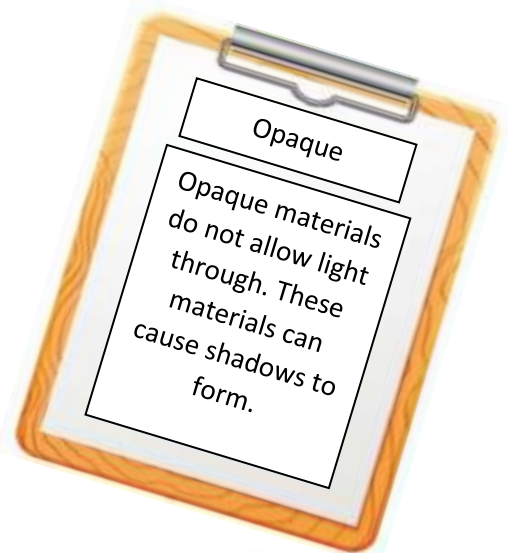
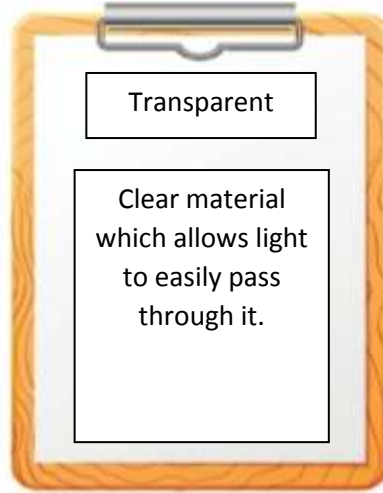


Date _____

Name _____

Shadows

Look at all the items below and think about what type of material is used (Opaque, translucent or transparent).



Sunglasses
Material type: _____
Reason: _____

Compass screen
Material type: _____
Reason: _____



Refrigerator door
Material type: _____
Reason: _____

Sunhat
Material type: _____
Reason: _____

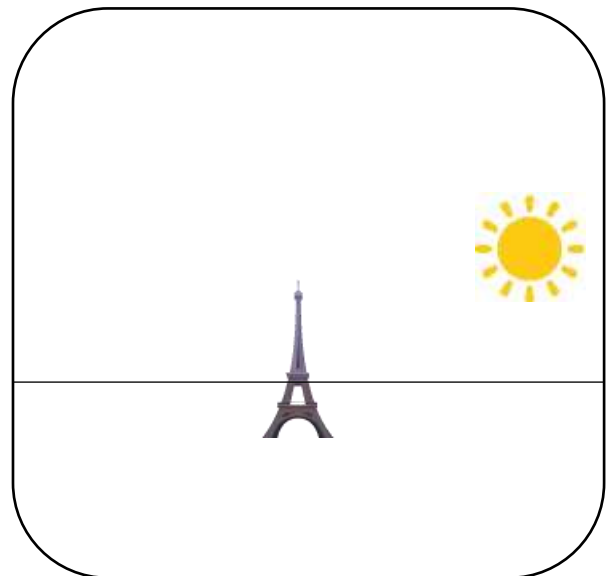
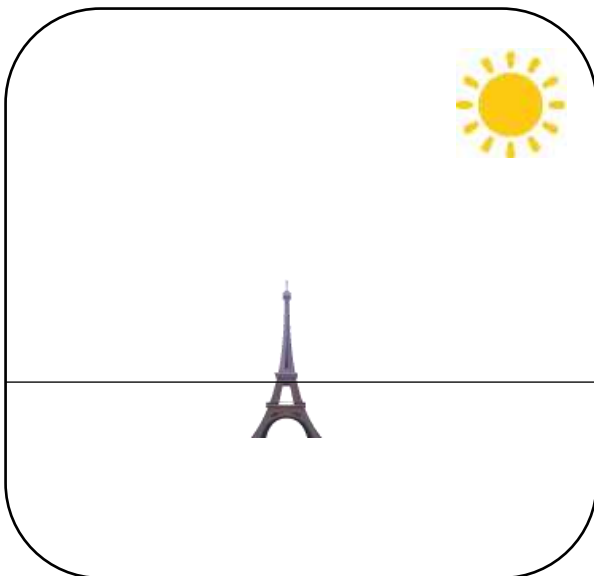
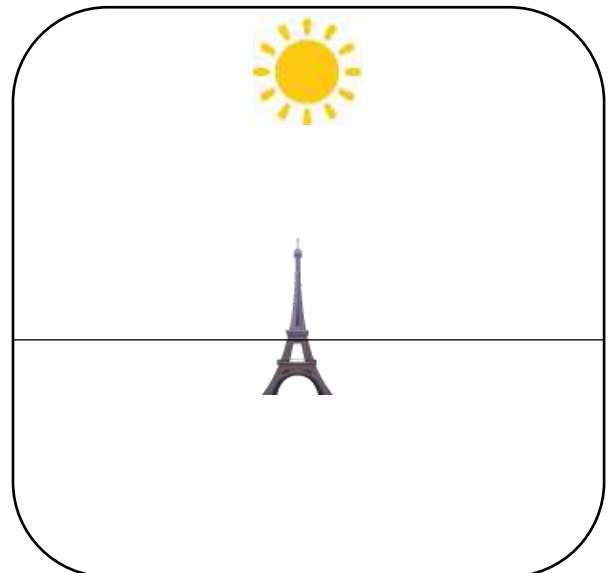
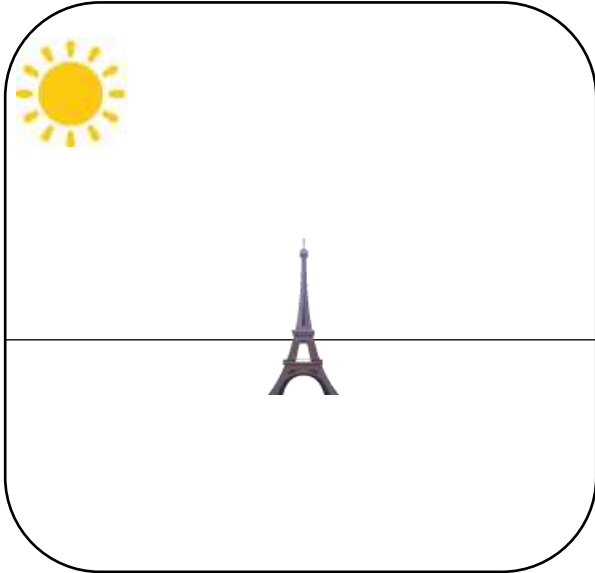


Bathroom window
Material type: _____
Reason: _____

Computer monitor screen
Material type: _____
Reason: _____



You will be aware that opaque materials block light and hence can cause shadows to form. Look at each of the images below and draw where you think the shadow will occur according to the angle of the light source.

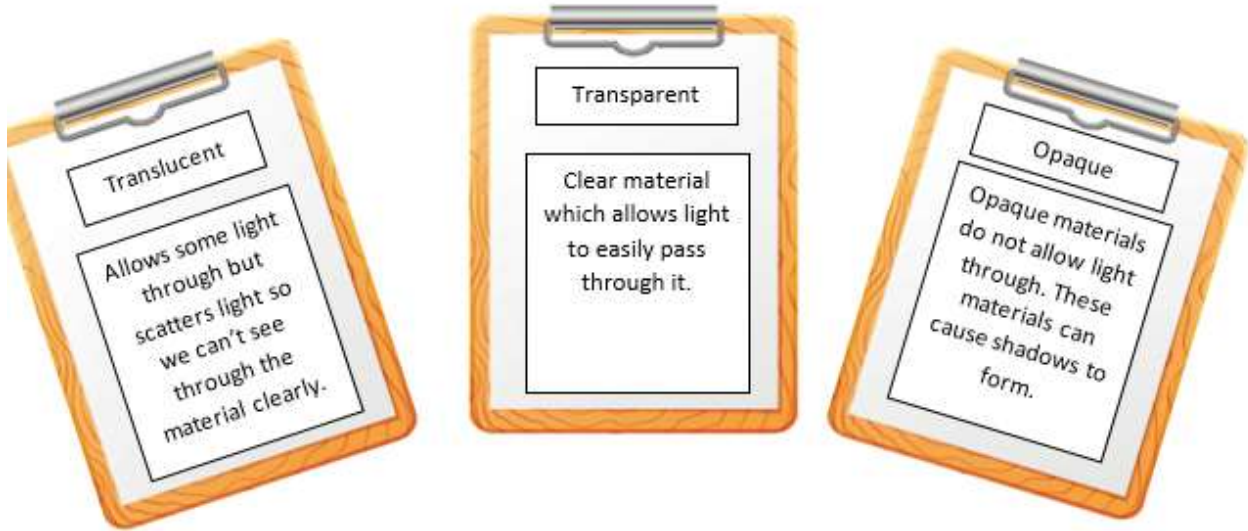


Shadows(Answers)

In some questions, alternative answers may be acceptable. The likeliest answers are given below. If questions have more than one answer, teachers should use their own judgement when marking

Shadows

Look at all the items below and think about what type of material is used (Opaque, translucent or transparent).



Sunglasses
Translucent
 Allow most light through but diffuses it to help a wearer protect their eyes from bright light.

Compass screen
Transparent
 Allows all light through. Helps the user easily see the direction of the compass.



Refrigerator door
Opaque
 Stops light entering the fridge. Light can damage some food and make it spoil early.

Sunhat
Opaque
 Stops the light from the sun passing through it. Protects the wearer from harmful light.



Bathroom window
Translucent
 Allow most light through but diffuses it to help maintain privacy for people in the bathroom.

Computer monitor screen
Transparent
 Allows light to easily pass through it in order to enable a user to see detail on a screen.



You will be aware that opaque materials block light and hence can cause shadows to form. Look at each of the images below and draw where you think the shadows will occur according to the angle of the light source.

