**Science-**

**Light:**

<https://www.bbc.co.uk/bitesize/topics/zbssgk7>

**Lesson 4:**

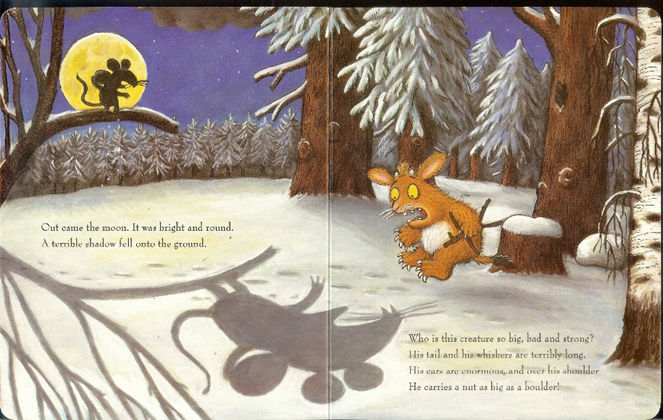
**LO: To identify how shadows are formed.**

**To start:**

**White Hat:** What is a shadow?

**Green Hat:** What words would you use when you talk about shadows?

[<https://www.youtube.com/watch?v=ibctn5G-_dg>](https://www.youtube.com/watch?v=ibctn5G-_dg)(You can watch the whole story or skip to around the 5.00 minute mark)

****

**Yellow Hat: How was the mouse’s shadow useful?**

****

**Can you identify what these are shadows of?**

**Key Vocabulary:**

**Opaque-** Blocks the light from passing through

**Transparent-** Lets nearly all the light falling on it to pass through

**Translucent-** Blocks some of the light passing through it

**Can you think of some examples of objects for each of the above terms?**

**What is a shadow?**

<https://www.youtube.com/watch?v=YuUJCNzfoBw>

<https://www.bbc.co.uk/bitesize/clips/z6fnvcw>

**Key Information:**

Shadows are created when a source of light shines on an object but the light is blocked and does not pass through it.

**Task 1: Sort the objects**

|  |  |  |
| --- | --- | --- |
| **Transparent** | **Opaque** | **Translucent** |
|  |  |  |

Paper Ice cubes Window

Pencil Sandwich bag Glass bottle

Sticky tape Chair Tin can

**Task 2: Look at the items below and decide which type of material would be best for each one. Try to explain your reasons:**

Bathroom window

Sun Hat

Living room curtains

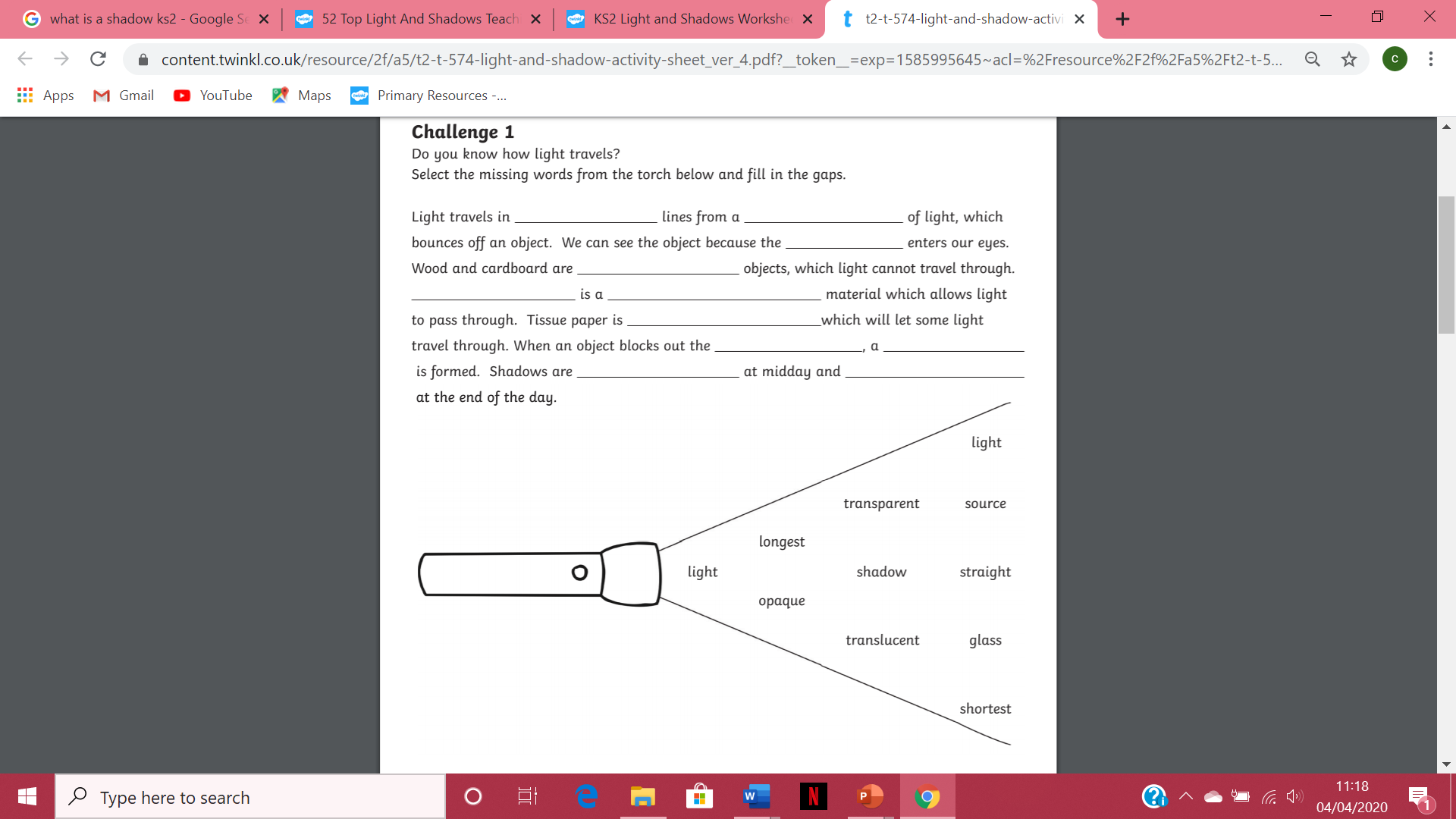
Car windscreen

A window

Shower curtain

**Explain your reasons for your choices.**

**Task 3: Complete the paragraph below:**



**Task 4: To Investigate: How can you make a really good shadow?**

Use a torch to investigate how different types of shadows can be made. Test out some opaque, transparent and translucent objects you can find around your house.

Can you try to make a long, stretched shadow or a shorter shadow? How?

Remember to record all of your findings.

