



Name : \_\_\_\_\_

Student booklet  
(1st year of cycle 1)



## Nice, but Hot!

It's summer. The day dawns hot and sunny. You have the choice of wearing a black shirt or a white one. How will you make an informed choice?

### Your mission

You have to discover which shirt will be more comfortable on very hot, very sunny days.

Using a drawing, describe what you have to do.



## *Initial ideas and hypothesis*

**My hypothesis:**

The more **comfortable shirt** is:



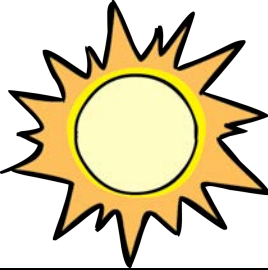




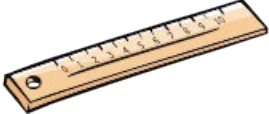








I think that because:

.....  
—————  
—————  
.....

.....  
—————  
—————  
.....

*Planning and carrying out*  
I need the following materials:

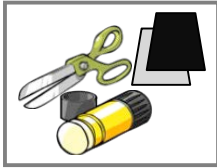


<input type="checkbox"/> 	<input type="checkbox"/> 	<input type="checkbox"/> 	<input type="checkbox"/> 
<input type="checkbox"/> 	<input type="checkbox"/> 	<input type="checkbox"/> 	<input type="checkbox"/> 
<input type="checkbox"/> 	<input type="checkbox"/> RED 	<input type="checkbox"/> BLUE 	
<input type="checkbox"/> 	<input type="checkbox"/> 	<input type="checkbox"/> 	

## Planning and carrying out The protocol

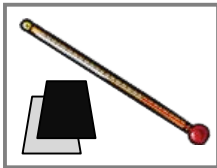


1 -



I make the pouches.

2 -



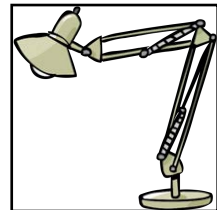
I place the thermometer.

3 -



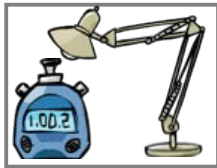
I trace the starting point of the temperature in blue.

4 -



At the adult's signal, I turn on the lamp.

5 -



I wait 5 minutes and turn the lamp off.

6 -



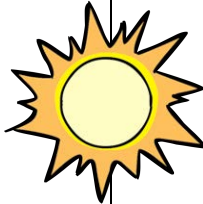
I trace the final point of the temperature in red.

*Planning and carrying out*  
**The results**

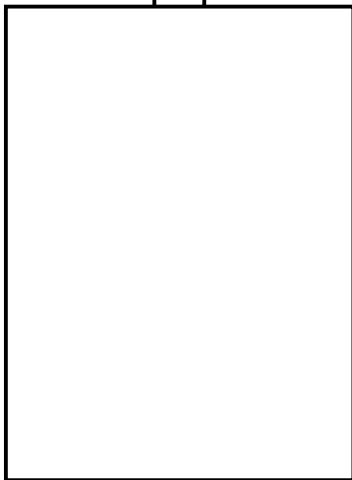


**Legend:** Start temperature

Final temperature



Glue the two  
strips on the  
benchmarks.



*Outcome*



What was your **hypothesis** (page 2)?



Based on your **result**, which shirt would you choose now?



Does your **result** confirm your **hypothesis**?

YES

NO

Why?

Name an unforeseen event or a problem encountered:

.....  
\_\_\_\_\_  
.....

**Outcome**  
**What I learned**



**My definition**



**heat:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Hypothesis:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Temperature :** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Thermometer :** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What else did you learn?