

centre de développement pédagogique pour la formation générale en science et technologie Name:

Group:







This model of the eye will allow you to discover how images form using a convergent lens with a 10 cm focal length (the focal point is located 10 cm from the lens). It can generate well-defined images of everything around you. It may be a colleague's smile or a car turning the corner.

In addition, this model is simple to use. It is quick and easy to assemble. To this end, there is a user manual at the end of this document (Appendix 1).

Your mandate				
Produce and carry out a process	allowing you to determine	ne the position of images		
formed by the model based on the distance of the observed objects.				
The position of the image is indicate	d by the adjustment handle	e that slides along the ruler.		
Here are three examples of objects to	o observe:			
Distant objects (as far as possible) - A landscape or a car in the distance - Someone at the other end of the class	Close objects (about 30 cm) - A book cover - A pencil case	Very close objects - The letters in a book - The kevpad of a calculator		
Su	ggest an explanation	(Hypothesis)		
For the distant object				
For the object that is very close				

|--|



Note: You may use the space available on the next page as needed.

Planning your process (continued):

• If you must change the elements as you go along, use a different colour pencil to adjust your initial plan.

Cr2	Development of a suitable plan of action	Planning of steps in the plan of action (manipulations, diagram of the assembly, etc.)	
		Selection of resources (materials, equipment, etc.)	
Cr3	Appropriate implementation of the plan of action	Observance of safety rules	
		Use of appropriate strategies and techniques	
		Adjustments during the implementation of the plan of action	





Data

Note and organise

Cr3 Approp implen of the action	Appropriate	Recording of data	
	of the plan of action	Use appropriate types of representation (tables)	





Difficulties and adjustments

Note what you experienced

Difficulties encountered	Adjustments made

Cr3	Appropriate implementation of the plan of action	Adjustments during the implementation of the plan of action	
-----	--	---	--



Working out explanations and concluding

1000	-	-
Are your hypotheses confirmed or refuted	?	
For the distant object		Refuted
For the close object		Refuted
For the object that is very close	Confirmed	Refuted
Why? Explain your choice based on your	results and observation	ons.
What do you take away from this process	(what is the most imp	portant thing to remember?)
If you could start your investigation over, o	explain what you wou	ld do differently and why.

Cr4	Development of relevant explanations, solutions or conclusions	Verification of consistency of the hypothesis with the analysis of the results.	
		Formulation of explanations or conclusions in accordance with the data collected and knowledge acquired	
		Proposal of improvements	
		Use of appropriate terminology, rules and conventions	

Appendix 1 (User manual for the model of the eye)

