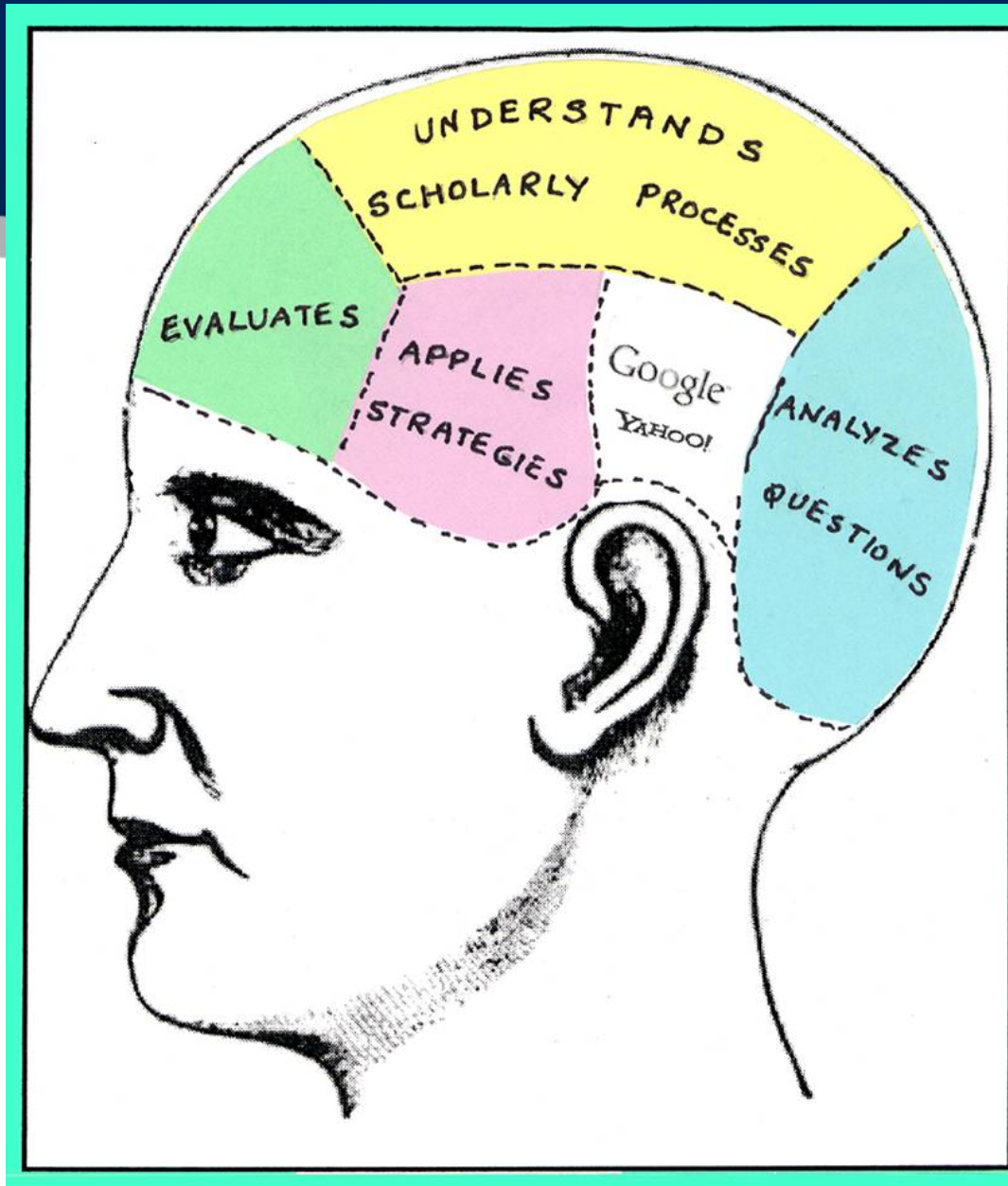




What is Research Literacy?

Dr. David A. Salomon
Director, The Office of Undergraduate
Research and Creative Activity





From CNU's Quality Enhancement Plan

- We define **Undergraduate Research Literacy** as “a skill-set that emerges as students learn to recognize, locate, evaluate, and synthesize information necessary to conduct a discipline-specific academic inquiry and produce work notable for its originality, rigor, and creativity.”



From the QEP

- **Learning the Research Alphabet** (in terms of teaching research skills to students and ultimately translating that language between university and “real world” contexts), **Learning Research Grammar** (in terms of the foundations within specific disciplines related to research), and **Learning Research Synthesis** (in terms of applying research knowledge to independent efforts such as independent research, internships, or service learning experiences).



Learning the Research Alphabet

- teaching research skills to students and ultimately translating that language between university and “real world” contexts
- What does that look like?



Learning the Research Alphabet

- Descriptive
 - Who
 - What
 - How
 - Where
 - When
- Exploratory
 - Better understanding of the problem at hand
- Explanatory
 - Explain the causes of the problem





CHRISTOPHER NEWPORT UNIVERSITY





The Paul & Rosemary Tribble Library: Welcome!

Search this Guide Search

- Welcome!
- Students
- Faculty & Staff



CNU Catalog | Scholarly Articles | JournalFinder | Course Reserves | Worldcat Discovery

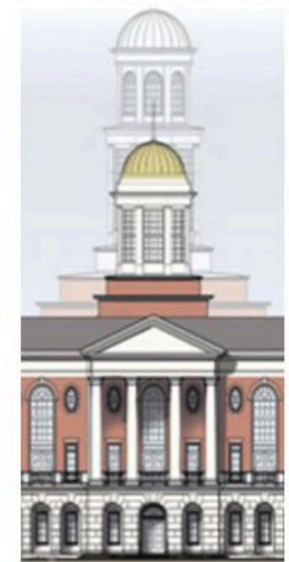
Search for books, [e-books](#), and media in Tribble Library
Use the [request](#) service for the books!

Keyword

[More options](#) [Renew Books](#)

Off Campus Access is available - see [this guide](#) for directions and instructions!

Library Expansion Details and Plans



- Get Help
- Library Hours
- Media Center
- Research Assistance Appointment
- Course Guides or all LibGuides
- Library Databases A to Z

- Library Instruction
- Writing and Citing
- Getting Started Guides
- Primary Source Guides
- Reserve Group Study Space
- Interlibrary Loan
- New Books
- Suggest a Purchase
- Special Collections & Archives
- Records Management



Google

Google Search

I'm Feeling Lucky



Evaluation, Evaluation, Evaluation

- TRAP
 - Timeliness
 - Reliability
 - Authority
 - Purpose

Evaluating Sources

There is an abundant amount of information available for your research but not all sources are credible or accurate. Here is how to carefully evaluate sources using a TRAP.

What is a TRAP?

Timeliness

When you use a source, note its date of publication. Is the information up-to-date for the subject? Be especially aware of the publication date for sources in technology, the sciences, or medicine. These fields develop so rapidly that information becomes out of date quickly.

Reliability

Is there a bibliography, list of citations or footnotes? Always look for a bibliography as it is a sign of quality and will often lead you to other resources on your subject. Is the information free from errors? You should verify dates, data and spelling of terms and names in more than one source.

Authority



























Try to determine if the author of the resource is a well-known scholar in his/her respective field. While an unsigned source is not necessarily a warning sign, listing the author's shows the publisher's confidence in their product.

Purpose

Think about why the document was created and if the information is presented in a neutral way. Is the work trying to sell, advocate or educate about a topic? There should be a minimum level of bias in the work. You should be wary of material that seems to be trying to sway the reader's opinion.



Got the alphabet?

Aa  apple	Bb  bat	Cc  cat	Dd  dog	Ee  Ed	Ff  fun
Gg  game	Hh  hat	Ii  igloo	Jj  jug	Kk  kite	Ll  lamp
Mm  man	Nn  nut	Oo  octopus	Pp  pan	Qq  Qu qu queen	Rr  rat
Ss  snake	Tt  top	Uu  up	Vv  van	Ww  wind	Xx  fox
Yy  yellow	Zz  zebra				



Learning Research Grammar

- the foundations within specific disciplines related to research
- putting together the words and sentences



Methods and Methodology

- Becoming more familiar with the tools and resources in the discipline
- Print and electronic resources
- Specialized lab equipment
- Sources of information
- Discipline-specific databases
- Software





Mass Spec



Softpedia test.sav [DataSet1] - IBM SPSS Statistics Data Editor

5 : region Visible: 132 of 132 Variables

	custid	region	townsize	gender	age	agecat	birthmonth	ed	edcat	jobcat	union	employ	empcat	retire
1	4557-ABRNJI-5YB	2	1	1	39	4	December	17	4	1	0	4	2	0
2	3675-MPXAID-868	4	3	0	43	4	May	16	3	2	0	2	2	0
3	8970-ZQVBIX-Z0U	5	3	0	49	4	August	14	2	2	0	4	2	0
4	0300-MXYQVV-WKF	5	1	0	35	4	January	9	1	1	0	2	2	0
5	9827-QPOKBY-LKO		2	0	32	3	September	16	3	3	0	5	2	0
6	5739-BYRLOH-4E9	4	3	1	21	2	July	14	2	5	0	1	1	0
7	4030-WSTXBV-BTC	3	2	1	79	6	June	12	2	2	0	18	5	1
8	9484-XPXYRM-EKK	1	1	0	64	5	March	11	1	1	0	16	5	0
9	2681-FGWTIM-PR4	3	5	0	62	5	January	16	3	4	0	21	5	1
10	9381-CBLQVX-22A	1	2	0	61	5	August	9	1	1	1	22	5	0
11	6677-HFMVVT-AM5	5	3	1	48	4	June	17	4	4	0	7	3	0
12	1196-LXFRGW-4PI	5	5	1	35	4	October	16	3	2	0	0	1	0
13	2873-UAHQBO-KUX	5	5	1	25	3	March	18	4	2	0	0	1	0
14	0194-YAJMQD-D7C	4	5	1	61	5	June	16	3	2	0	4	2	0
15	0491-YMZGVA-RWZ	4	2	0	57	5	July	16	3	5	0	19	5	0
16	4314-SOPKIL-OLR	4	3	0	52	5	April	18	4	6	0	13	4	0
17	6875-OCAMBG-ZAB	5	2	1	19	2	November	14	2	6	1	0	1	0
18	7042-XUPZNS-LII	5	4	0	65	6	February	14	2	2	0	13	4	0
19	2038-OVSVLN-8NO	2	2	1	22	2	April	17	4	1	0	0	1	0
20	4762-CPVKNE-QZ0	1	4	1	31	3	May	13	2	2	0	3	2	0
21	4254-GIHFGQ-694	3	1	1	43	4	March	9	1	2	0	4	2	0

Data View Variable View

IBM SPSS Statistics Processor is ready

SPSS





Archival Work

CHRISTOPHER NEWPORT UNIVERSITY





Focus groups



Research Grammar in A&S

- Ex: An exploration of Jungian archetypes in *The Secret Garden*
- Familiarity with Jungian archetypes
 - Jung, *Archetypes and the Collective Unconscious*
- Overview of psychological readings of *The Secret Garden*



Research Grammar in NBS

- Ex: studying craniofacial mutations in Zebrafish
- Familiarity with the basic anatomy and physiology of the Zebrafish
- Familiarity with basic lab procedures
- Competence → Proficiency with Phenotyping
- Microscope skills

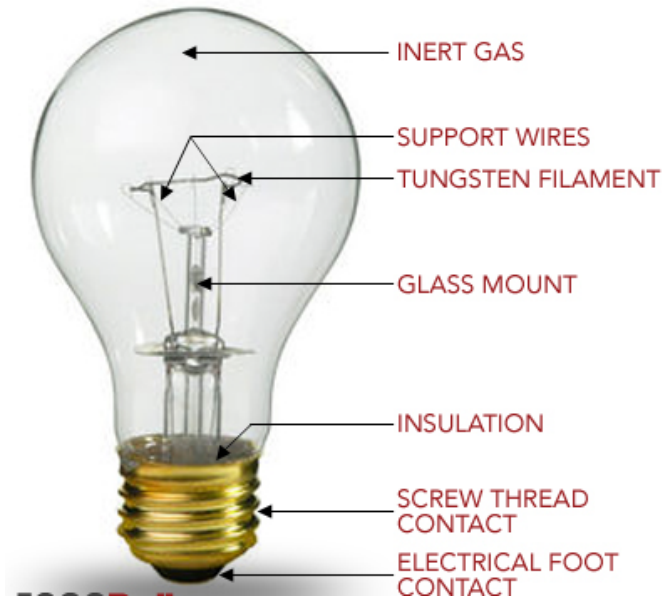


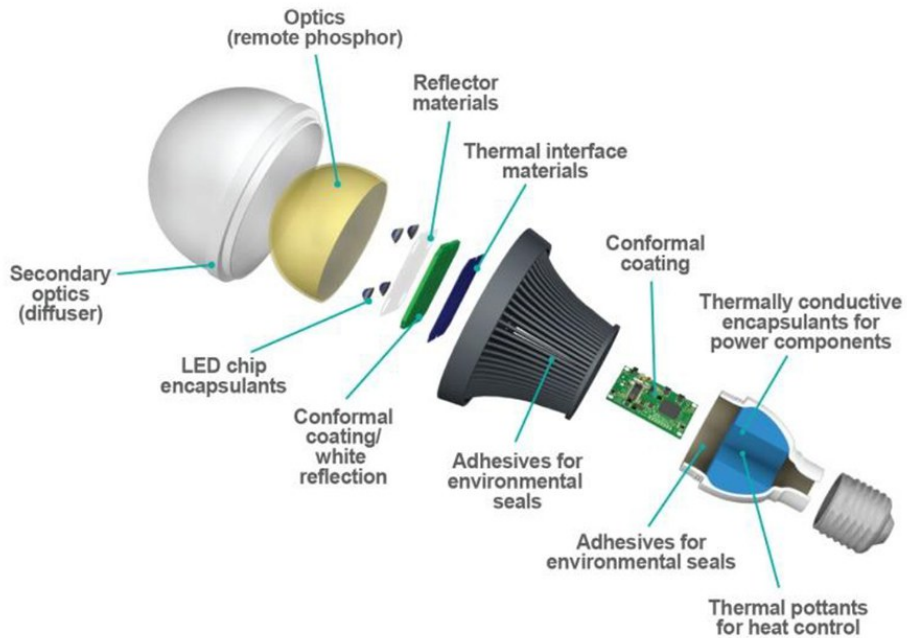
got grammar?



Learning Research Synthesis

- applying research knowledge to independent efforts such as independent research, internships, or service learning experiences





High lumen >100LM/W
Wide beam angle 360°

Transparent glass fixture
COB filament

Warm white light
Soft feeling, comfortable life.

International standard base
B22,E14,E27 for option

2500 HOURS
Powered by DH Trade.com

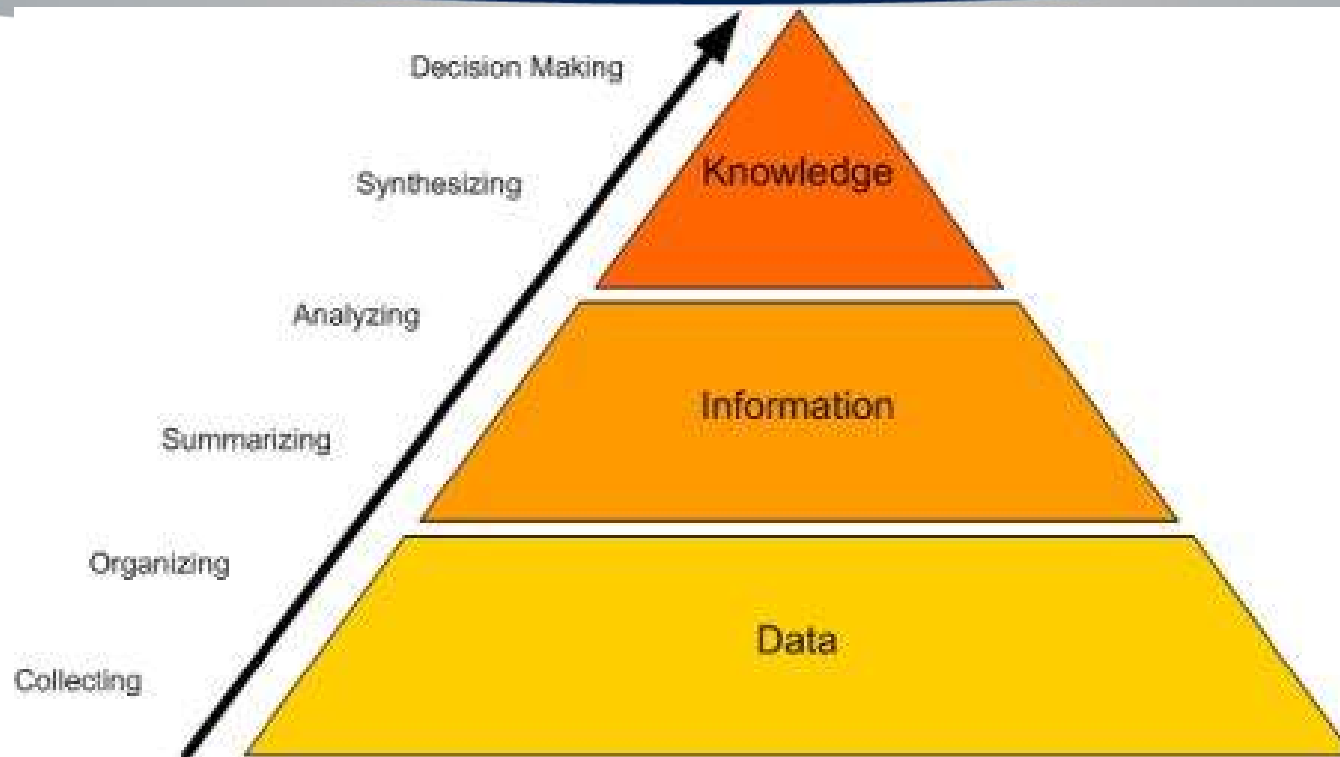
RoHS CE





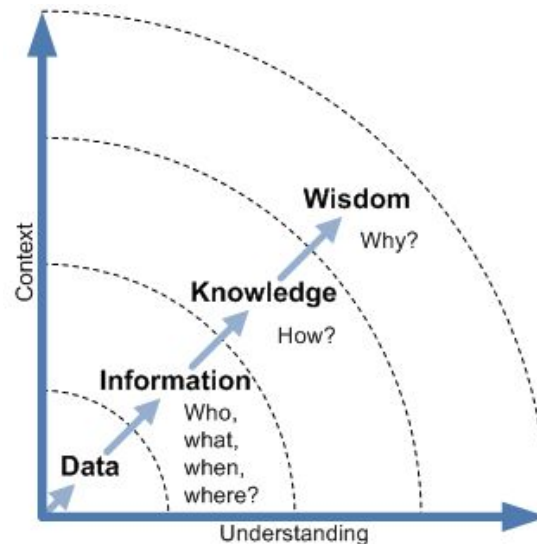
*PUT THE PIECES
TOGETHER TO SEE
THEM IN A NEW WAY.*





Research Literate?

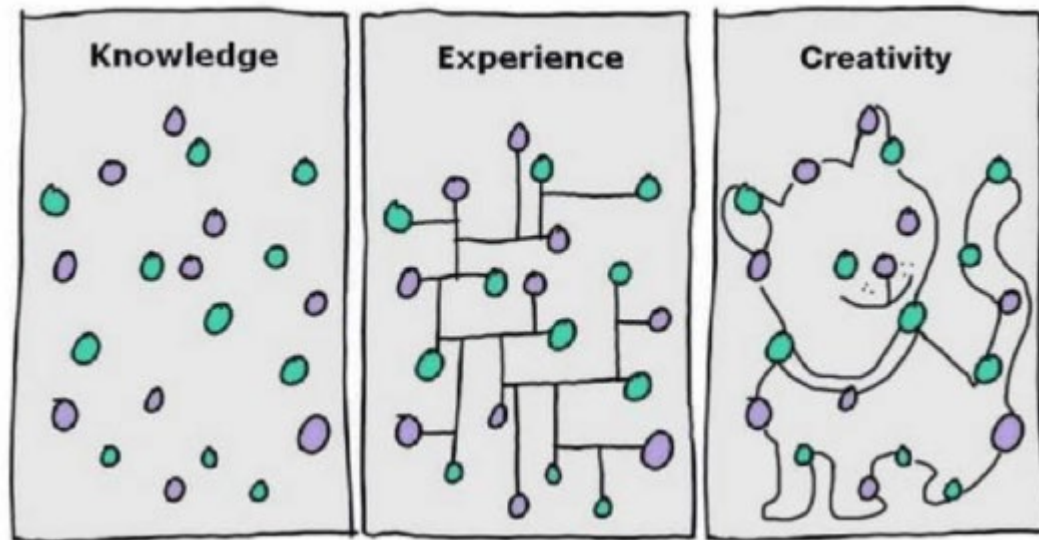
- Data → Information → Knowledge → Wisdom



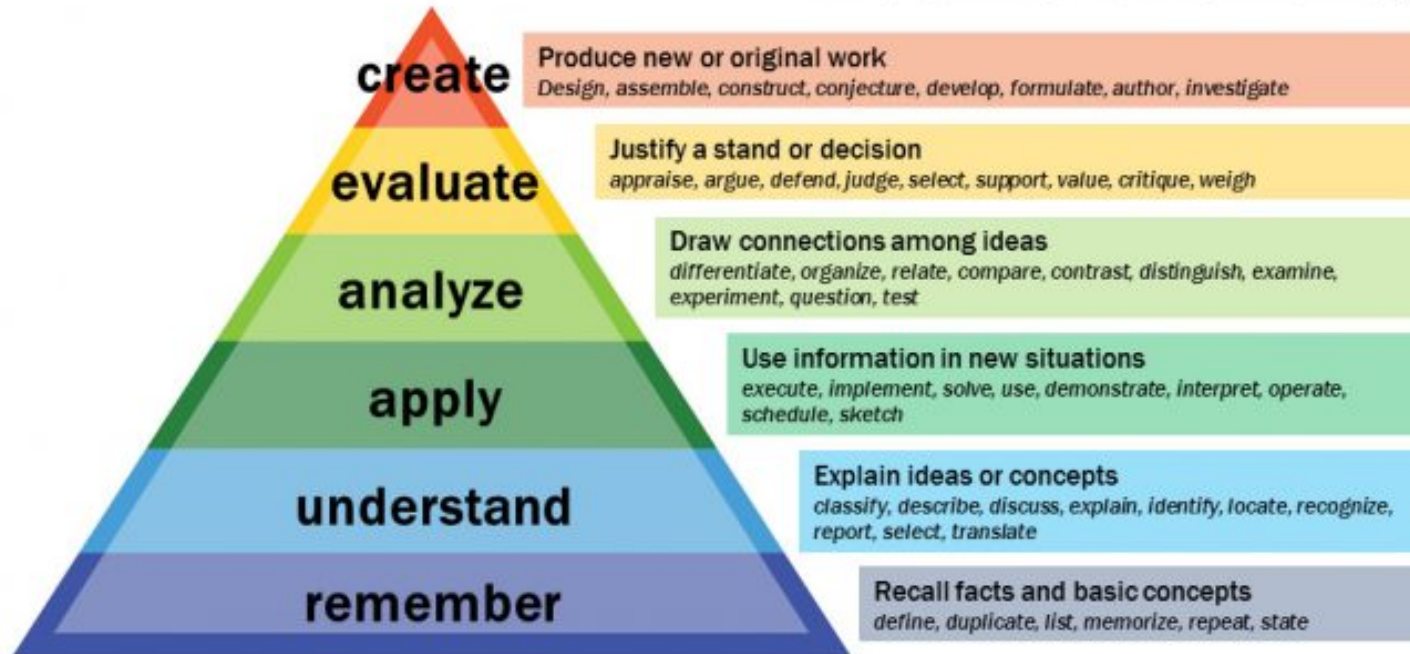
Robert Simmons of the Forsythe Solutions Group

- Being “research literate” is the ability to navigate this continuum





Bloom's Taxonomy



Vanderbilt University Center for Teaching



Research LENS



RESEARCH LENS

LEARN • EXPLORE • NAVIGATE • SHARE



Next OURCA Workshops: Tuesday, December 5, 12:30-1:30, MCM 362
Thursday, December 7, 12:30-1:30, MCM 362

THE NEW OURCA LENS TRAVEL FUND: HOW TO APPLY

