



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET76154, entitled

*Improving Students Understanding of Thermochemistry Concepts through Guided
Peer Discussions among Selected First Year Students at Batangas State University Alangilan Campus*

by

Neil Jonard P. Aninao

after review is found suitable and has been published in

Volume 13, Issue XII, December 2025

in

*International Journal for Research in Applied Science &
Engineering Technology*

(International Peer Reviewed and Refereed Journal)

Good luck for your future endeavors

By [Signature]

Editor in Chief, iJRASET



ISRA Journal Impact
Factor: 7.429



45.98

INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET76154, entitled

*Improving Students Understanding of Thermochemistry Concepts through Guided
Peer Discussions among Selected First Year Students at Batangas State University Alangilan Campus
by*

Jhon Zig D. David

*after review is found suitable and has been published in
Volume 13, Issue XII, December 2025
in*

*International Journal for Research in Applied Science &
Engineering Technology
(International Peer Reviewed and Refereed Journal)
Good luck for your future endeavors*

By [Signature]

Editor in Chief, iJRASET

ISRA

ISRA Journal Impact
Factor: 7.429

45.98
INDEX COPERNICUS

THOMSON REUTERS
Researcher ID: N-9681-2016

doi 10.22214/iJRASET
cross ref

TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET76154, entitled

*Improving Students Understanding of Thermochemistry Concepts through Guided
Peer Discussions among Selected First Year Students at Batangas State University Alangilan Campus
by*

Hazel Ann M. Hontiveros

*after review is found suitable and has been published in
Volume 13, Issue XII, December 2025
in*

*International Journal for Research in Applied Science &
Engineering Technology
(International Peer Reviewed and Refereed Journal)
Good luck for your future endeavors*

By [Signature]

Editor in Chief, iJRASET

 ISRA

ISRA Journal Impact
Factor: 7.429



45.98

INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET76154, entitled

*Improving Students Understanding of Thermochemistry Concepts through Guided
Peer Discussions among Selected First Year Students at Batangas State University Alangilan Campus*

by

Jay Phoenix A. Marfil

*after review is found suitable and has been published in
Volume 13, Issue XII, December 2025*

in

*International Journal for Research in Applied Science &
Engineering Technology
(International Peer Reviewed and Refereed Journal)
Good luck for your future endeavors*

By [Signature]

Editor in Chief, iJRASET

JISRA
J
F

ISRA Journal Impact
Factor: **7.429**



INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



doi
cross ref



TOGETHER WE REACH THE GOAL
SJRIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET76154, entitled

*Improving Students Understanding of Thermochemistry Concepts through Guided
Peer Discussions among Selected First Year Students at Batangas State University Alangilan Campus*

by

Chariz M. Riano

after review is found suitable and has been published in

Volume 13, Issue XII, December 2025

in

*International Journal for Research in Applied Science &
Engineering Technology*

(International Peer Reviewed and Refereed Journal)

Good luck for your future endeavors

By [Signature]

Editor in Chief, iJRASET

JISRA
J
F

ISRA Journal Impact
Factor: **7.429**

 45.98
INDEX COPERNICUS

 THOMSON REUTERS
Researcher ID: N-9681-2016

 doi 10.22214/IJRASET
cross ref

 TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET76154, entitled

*Improving Students Understanding of Thermochemistry Concepts through Guided
Peer Discussions among Selected First Year Students at Batangas State University Alangilan Campus
by*

John Rex I. Sadicon

*after review is found suitable and has been published in
Volume 13, Issue XII, December 2025
in*

*International Journal for Research in Applied Science &
Engineering Technology
(International Peer Reviewed and Refereed Journal)
Good luck for your future endeavors*

By [Signature]

Editor in Chief, iJRASET

 ISRA

ISRA Journal Impact
Factor: 7.429



45.98

INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET76154, entitled

*Improving Students Understanding of Thermochemistry Concepts through Guided
Peer Discussions among Selected First Year Students at Batangas State University Alangilan Campus*

by

Althea M. Salazar

after review is found suitable and has been published in

Volume 13, Issue XII, December 2025

in

*International Journal for Research in Applied Science &
Engineering Technology*

(International Peer Reviewed and Refereed Journal)

Good luck for your future endeavors

By [Signature]

Editor in Chief, iJRASET

JISRA
J
F

ISRA Journal Impact
Factor: **7.429**



INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



Scopus
TOGETHER WE REACH THE GOAL
SJIF 7.429



ISSN No. : 2321-9653

iJRASET

International Journal for Research in Applied
Science & Engineering Technology

iJRASET is indexed with Crossref for DOI-DOI : 10.22214

Website : www.ijraset.com, E-mail : ijraset@gmail.com

Certificate

It is here by certified that the paper ID : IJRASET76154, entitled

*Improving Students Understanding of Thermochemistry Concepts through Guided
Peer Discussions among Selected First Year Students at Batangas State University Alangilan Campus*

by

Bryle A. Armeza

after review is found suitable and has been published in

Volume 13, Issue XII, December 2025

in

*International Journal for Research in Applied Science &
Engineering Technology*

(International Peer Reviewed and Refereed Journal)

Good luck for your future endeavors

By [Signature]

Editor in Chief, iJRASET



ISRA Journal Impact
Factor: 7.429



45.98

INDEX COPERNICUS



THOMSON REUTERS
Researcher ID: N-9681-2016



TOGETHER WE REACH THE GOAL
SJIF 7.429