

# DEVELOPMENTAL PSYCHOPATHOLOGY LAB

AT THE UNIVERSITY OF IOWA



## 2023 SPRING-SUMMER NEWSLETTER


**Principal Investigator:** Isaac T. Petersen, Ph.D.

**Lab Coordinator:** Benjamin Swanson

**Lab Technician:** Laxmi Annapureddy

**Newsletter Creator:** Kasia Janik





A Note  
from  
**Dr. Petersen**  
Principal Investigator  
DevPsy Lab



## DEAR FAMILY,

We are so thankful for your help in conducting research in our lab. This newsletter is for the incredible families participating in the School Readiness Study at the University of Iowa's Developmental Psychopathology Lab. Thanks to your participation, the National Institutes of Health (NIH) have continued to support our study and our contributions to understanding how children develop skills to be ready for school. Thanks to the participation of families like yours, we have advanced research in identifying protective and risk factors in children. Post-baccalaureate staff, undergraduate research assistants, and graduate students from our lab have studied the answers from the surveys you fill out--as well as data from the lab visits you make time for--to pursue independent projects presented at conferences throughout the United States. We would not be able to conduct our study without your kindness and dedication.

Given the difficulties posed by the COVID-19 pandemic, we wanted to communicate the changes our lab has seen. We have integrated texting to bring in new families and communicate information for lab visits, and we now have magnets and stickers for families to remember they are a part of our team. Our lab space features new furniture, laptops, snacks, and water bottles for families to feel more at home. We have also expanded our lab to better accommodate the demanding schedules our families have; you may even see two visits happening at once! We invite you and your child to visit the lab knowing we work tirelessly for your family's comfort and safety.

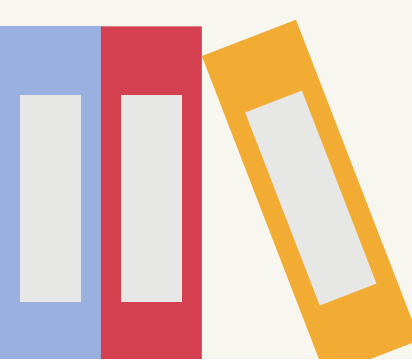
The pandemic still remains a reality for many, and we want to do whatever we can to support you. Please do not hesitate to reach out if you have questions or if we can help with anything. We are attaching a list of potentially helpful resources. We are a community and we support each other.

Sincerely,



**Isaac T. Petersen, Ph.D.**

Principal Investigator of the Developmental  
Psychopathology Lab, Department of Psychological  
Brain Sciences, University of Iowa



# —ABOUT DEVPSY LAB—

## MISSION STATEMENT

We are striving to improve the health and well-being of families and communities by conducting research to advance the understanding of human development.



## DIVERSITY STATEMENT

We seek to include members of various cultural, ethnic, and socioeconomic backgrounds so that our research might best represent the families which make up our diverse communities. We aim to provide a welcoming and respectful environment for people of all backgrounds.

# SCHOOL READINESS STUDY

## A NATIONAL INSTITUTES OF HEALTH-FUNDED PROJECT

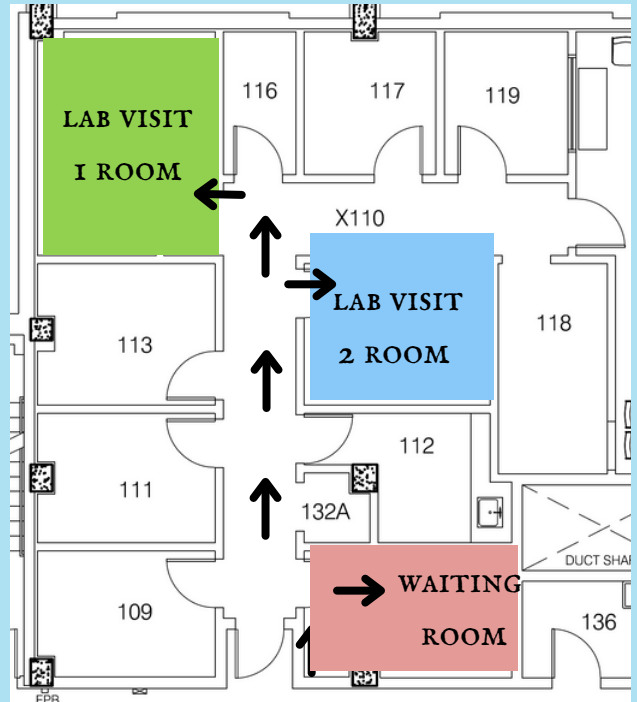
The purpose of our current research, the School Readiness Study, is to investigate the development of externalizing problems such as aggressive, disruptive, and noncompliant behavior in children. To accomplish our mission, we study how individual differences in brain functioning, self-regulation, and emotion regulation predict the development of behavioral problems and school readiness skills. We place a special emphasis on early development, which may help improve intervention and prevention strategies.

Early difficulties in cognitive control may predict a delay in school readiness. By exploring the various factors that play a role in determining behavior, school outcomes, and development of internalizing and externalizing problems, we will better establish an understanding of intervention and prevention strategies to help children be successful.

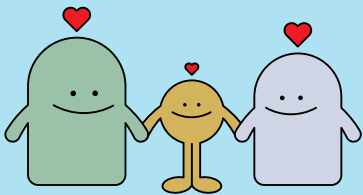


# DEVPSY MAP OF VISITS

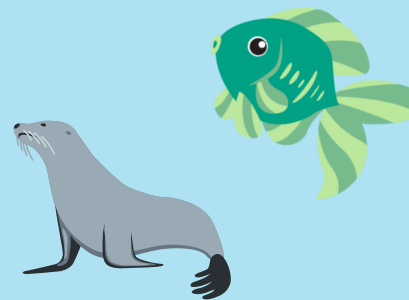
## FLOOR PLAN OF THE LAB SPACE



### LAB VISIT 1



### LAB VISIT 2



RETURN IN  
9 MONTHS FOR  
YOUR NEXT VISIT!



# RESEARCH ASSISTANT SPOTLIGHT

"Working on my independent thesis this past year has been an excellent opportunity to develop my research and writing abilities, especially relevant as I will attend graduate school for my doctorate in Clinical Psychology this fall! I enjoyed that I got to pick a topic I was passionate about, conduct the research, and test my hypotheses. I am glad I got the chance to pursue my research interest in children, which is relevant to what I want to become more involved with later in life!"



Gloria Chang



Avery Bandstra

"I examined the moderating effects of child negative emotionality on the relationship between parental autonomy support and attentional outcomes in children. Results of this study suggest that children low in negative emotionality benefit the most from parental autonomy support in their ability to focus attention on school-like tasks."

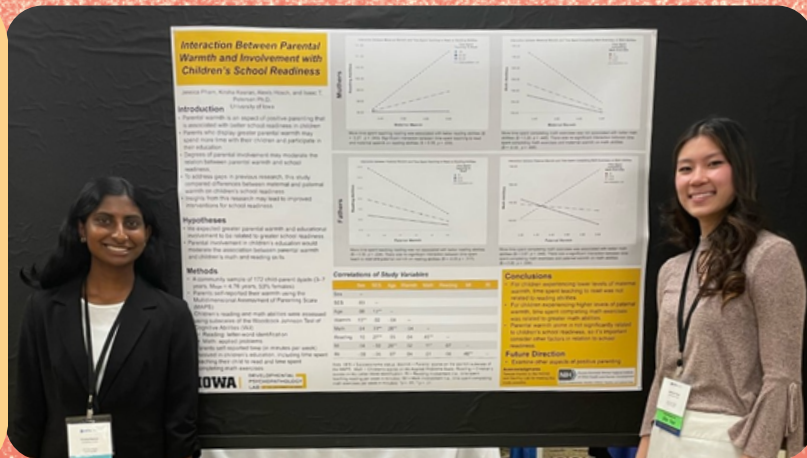


# CONFERENCE SPOTLIGHT

Thanks to the parents who fill out our (long) surveys, our members can pursue independent projects and meet other researchers in the field!

## THE INTERACTION BETWEEN PARENTAL WARMTH AND CHILDREN'S SCHOOL READINESS

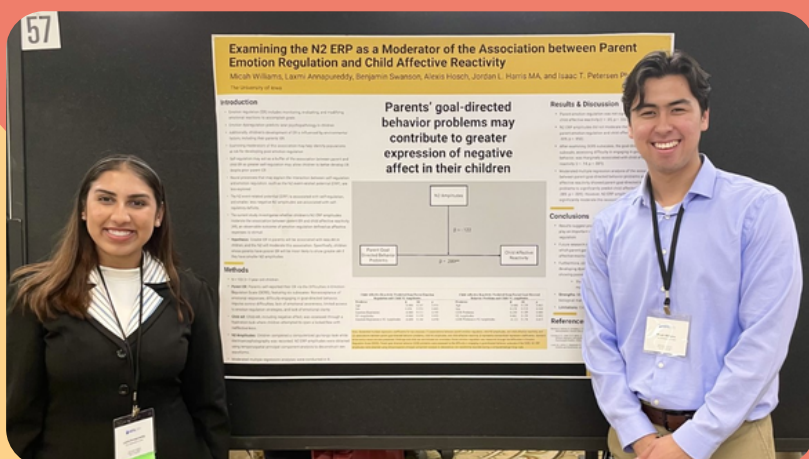
Undergrad RAs Krisha Keeran and Jessica Pham examined the relationship between paternal and maternal warmth, which is an aspect of positive parenting. They looked at how the time involved teaching to either read or do math exercises may moderate children's math and reading abilities over time.



Their results show parental differences of warmth with higher levels of warmth to be more significant with fathers in math abilities when more time was spent. They also found for lower levels of maternal warmth, the time spent teaching reading was not related to reading abilities. Additionally, they found parental warmth alone was not significantly related to children's school readiness, so other factors like different positive parenting techniques should be considered.

## EXAMINING THE N<sub>2</sub> ERP AS A MODERATOR OF THE ASSOCIATION BETWEEN PARENT EMOTION REGULATION AND CHILD AFFECTIVE REACTIVITY

Lab tech Laxmi Annapureddy and undergrad RA Micah Williams looked at emotion regulation in parents and children's emotion expression with the N<sub>2</sub> event-related potential, a measure of brain activity associated with self-regulation, as a moderator. Results suggested problems in parent goal-directed behavior may play an important role in the development of child emotion regulation.



## EXAMINING THE P<sub>3</sub> ERP AS A MODERATOR OF THE ASSOCIATION BETWEEN PARENT EMOTION REGULATION AND CHILD AFFECTIVE REACTIVITY

Lab tech Laxmi Annapureddy and undergrad RA Micah Williams looked at emotion regulation in parents and its influence on children's emotion expression, as well as how brain activity may moderate this association, with one of the first studies to investigate the P<sub>300</sub> event-related potential, a measure of brain activity thought to reflect attention orientation, as a moderator of the association between parent emotion regulation and child emotion expression. Emotion regulation is essential for positive adjustment across the lifespan, and their results suggest children with smaller P<sub>3</sub> amplitudes, coupled with poor parent emotion regulation, may be at particular risk of developing poor emotion regulation.



# Thank You, Families!

# of Families involved in  
DevPsy Lab:

**152**

*"I love playing games  
with the kids and  
seeing the smiles of  
the families that come  
into our lab."*

*-Avery Bandstra  
LVI Experimenter*

We want to express our gratitude to all the families that give their time and energy to our lab. Our work would not be possible without you. Your involvement furthers our ability to provide meaningful research.

---

## How can I learn more about the lab?

Follow us!



@dev\_psy\_lab



@devpsylab



@devpsylab



**Website:** <https://developmental-psychopathology.lab.uiowa.edu/>

**Email:** devpsy-lab@uiowa.edu **Phone:** (319) 353-1977





# Frequently Asked Questions

## **What happens during lab visits?**

During lab visit one, the child will be playing a variety of games with one of our experimenters, winning prizes and treats. In lab visit two, the child will be wearing an EEG cap while they play computer games.

## **How long are the lab visits?**

The first lab visit is about 3 hours long, and the second lab visit is about 2 hours long.

## **How long will my involvement last?**

For 2 years, every 9 months you will come in for two lab visits. This will occur a total of 4 times, totaling 8 visits by the end of your involvement.

## **Is compensation provided?**

Yes. Each family will receive compensation after each visit, for a total of \$618 for full participation over the 2 year time period.





## Recent Publications

Cellier, D., & Petersen, I., & Hwang, K. (2022). Dynamics of Hierarchical Task Representations. *The Journal of Neuroscience*. 42. JN-RM. 10.1523/JNEUROSCI.0233-22.2022.

Harris, J., LeBeau, B., & Petersen, I. (in press). Reactive and Control Processes in the Development of Internalizing and Externalizing Problems Across Early Childhood to Adolescence. *PsyArXiv Preprints*. <https://psyarxiv.com/js96k/>; DOI: 10.31234/osf.io/js96k.

Hosch, A., Harris, J., & Swanson, B., & Petersen, I. (2022). The P3 ERP in Relation to General Versus Specific Psychopathology in Early Childhood. *PsyArXiv Preprints*. <https://psyarxiv.com/vh3pm/>; DOI: 10.31234/osf.io/vh3pm.

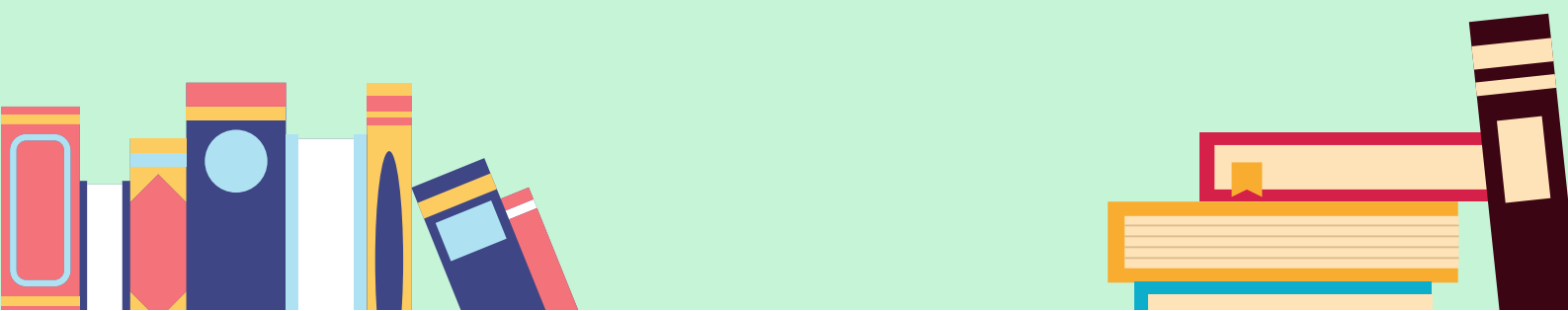
Hosch, A.\*, Oleson, J. J., Harris, J. L.\*, Goeltz, M. T.\*, Neumann, T.\*, LeBeau, B., Hazeltine, E., & Petersen, I. T. (2022). Studying children's growth in self-regulation using changing measures to account for heterotypic continuity: A Bayesian approach to developmental scaling. *Developmental Science*. <https://onlinelibrary.wiley.com/doi/10.1111/desc.13280>; <https://doi.org/10.1111/desc.13280>; OSF: <https://osf.io/5xnrh>

Hosch, A., Swanson, B., Harris, J., Oleson, J., Hazeltine, E., & Petersen, I. (in press). Explaining Brain-Behavior Relations: Inhibitory Control as an Intermediate Phenotype Between the N2 ERP and the Externalizing Spectrum in Childhood. *PsyArXiv Preprints*. <https://psyarxiv.com/hrvnd/>; 10.31234/osf.io/hrvnd.

Petersen, I. T. (2022). Principles of psychological assessment: With applied examples in R. University of Iowa Libraries. <https://isaactpetersen.github.io/Principles-Psychological-Assessment>. <https://doi.org/10.5281/zenodo.6466589>; OSF: <https://osf.io/3pwza>

Petersen, I. T., Apfelbaum, K. S., & McMurray, B. (in press). Adapting open science and pre-registration to longitudinal research. *Infant and Child Development*. e2315. <https://doi.org/10.1002/icd.2315>; Preprint: <https://doi.org/10.31234/osf.io/gtsww>; OSF: <https://osf.io/jzxb8>; <https://osf.io/vzb2k>

Petersen, I. T., & LeBeau, B. (2022). Creating a developmental scale to chart the development of psychopathology with different informants and measures across time. *Journal of Abnormal Psychology*. <https://psycnet.apa.org/record/2022-84900-007?doi=1>; OSF: <https://osf.io/9zd6e>



# HELPFUL RESOURCES FOR FAMILIES

## ***Mental Health:***

**Free Mental Health Clinic (FMHC):** Clinic is held every other Saturday morning with patient appointments scheduled at 9AM and 10AM. FMHC does not offer counseling or therapy services. All appointments are made through the clinic email at [freementalhealthclinic@gmail.com](mailto:freementalhealthclinic@gmail.com).

**University of Iowa Seashore Clinic:** Phone: (319) 335-2467;  
Department of Psychological and Brain Sciences

**University of Iowa Hospitals and Clinics:** Department of Psychiatry  
- Karen Nelson, Ph.D.: (319) 353-6040  
- Beth Troutman, Ph.D.: (319) 384-3236  
- Laura Fuller, Ph.D.: (319) 353-8978

## **Abbe Center Community Mental Health Services**

Iowa City (319) 338-7884  
Cedar Rapids (319) 398-3562  
Walk-In Center Address: 520 11th Street NW, Cedar Rapids  
<https://www.unitypoint.org/cedarrapids/same-day-access-services.aspx>

## **Anderson, Arnold, and Partners, L.L.P.**

(319) 354-3232  
<http://andersonarnold.com/>

## **Counseling Center of Iowa City Striegel, Fisher, Young & Associates**

(319) 337-6483  
<http://www.counselingcenteric.com/index.php>

## **Counseling & Health Center**

(319) 337-6998  
<http://www.iowacitycounselors.com/Home.php>

## **Crisis Center of Johnson County**

1121 Gilbert Ct, Iowa City  
Phone: (319) 351-0140 (Crisis Line, available 24 hours a day, 365 days a year)  
Johnson County Mobile Crisis Unit: 1-855-325-4296 (call/text)  
Food Bank: (319) 351-2726

## **East Iowa Psychology Group**

325 E. Washington Street  
Iowa City, IA 52240  
(319) 358-9397

## **Gersh, Hartson, & Payne Associates, P.C.**

(319) 338-9960  
<http://www.ghapsych.com/>

## **Integrated Community Therapists, LLC**

(319) 337-3357  
<http://www.ictherapists.com/>

## **Psychiatric Associates of Iowa City**

(319) 356-6352  
<http://www.psychassociates.net>

## **Rein Center for Emotional Health and Wellbeing**

2710 N. Dodge Street, Suite 1  
Iowa City, IA 52245  
(319) 400-1311

## **Virtue Medicine**

221 E. College Street  
Iowa City, IA 52240  
(319) 338-5190  
Website: <https://virtuemedicine.com/>

## ***Education & Support Groups:***

**Iowa Family Network Parent Education Groups:** Group-based parent education programs are designed to provide support and education in a group setting, helping parents acquire skills needed to help their child reach developmental success. [iafamilysupportnetwork@everystep.org](mailto:iafamilysupportnetwork@everystep.org); Phone: 1-888-425-4371  
<https://www.iafamilysupportnetwork.org/group-services>

**United Action for Youth:** 1700 S 1st Ave., Ste. 14, Iowa City, IA 52240  
Phone: (319) 338-7518; [unitedactionforyouth.org](http://unitedactionforyouth.org); offers counseling and youth development programs to teens and families in Johnson County and surrounding communities. UAY offers family mediation and therapy for youth and their parents, to address family conflict, communication, depression, anxiety, trauma and grief. 355 Iowa Avenue in downtown Iowa City

## **Crisis Programs & Advocacy:**

**CommUnity Crisis Services:** 1121 Gilbert Ct., Iowa City, IA 52240-4528  
Phone: (319) 351-0140; [builtbycommunity.org](http://builtbycommunity.org); Provides immediate support through the Food Bank and Crisis Intervention Programs. All services are free and confidential. 24-Hour Crisis Line, Chat, and Text services. Available by phone 24/7; walk-in counseling offered Monday - Friday, 9am - 5pm; mobile crisis outreach offered 24 hours to Iowa and Johnson Counties. Specializes in suicide prevention and crisis intervention services, and hosts monthly support groups for individuals with specific needs, with times and locations listed online.

**Domestic Violence Intervention Program (DVIP):** 1105 S. Gilbert Ct., Ste. 300, Iowa City, IA 52240; Phone: (319) 351-1043; [dvipiowa.org](http://dvipiowa.org), provides support and resources to individuals battered by their intimate partner or loved ones. Provides the following confidential crisis intervention services: 24-hour safe shelter and hotline; advocacy with law enforcement, courts, medical and social services; counseling and support groups; youth support services; volunteer opportunities; and community education.

## **Employment Services:**

Iowa Workforce Development Center: 1700 S 1st Av, Iowa City, IA; Phone: 1.319.351.1035; Provides job information, resumes service, internet access, typing tutorials, word processing, brochures and pamphlets, job placement assistance and unemployment insurance.

**Goodwill Vocational Services:** 1700 S 1st Ave Suite 11A Iowa City, IA;  
Phone: 1.319.337.4889

**Employment Plus:** 1700 S 1st Ave, Suite 15 Iowa City, IA; Phone: 1.319.358.7801

## **Childcare:**

**Child Care Assistance program (CCA)** helps pay for the care of your child while a parent or caretaker works or attends school. It might also be used to care for children while a parent or caretaker is looking for work or is temporarily unable to care for children because of medical reasons.  
<https://ccmis.dhs.state.ia.us/clientportal/>; (866) 448-4605;  
<https://dhs.iowa.gov/child-care>

**4Cs Community Coordinated Child Care:** 1500 Sycamore St., Iowa City, IA 52240; Phone: (319) 338-7684; [iowa4cs.com](http://iowa4cs.com), Provides education, consultation and resources to home and center-based child care programs.

## *Continued...*

# HELPFUL RESOURCES FOR FAMILIES

## ***Financial Support:***

To get help figuring out what financial services might be available to you, call the General Assistance Specialists at Johnson County Social Services: 319-356-6090

## **United Way**

Johnson/Washington Counties Community Disaster Relief Fund:

319-259-9218; [www.unitedwayjwc.org](http://www.unitedwayjwc.org)

Emergency assistance for households impacted by the Coronavirus.

**General Assistance** (short term monetary help):

319-356-6090; [www.johnson-county.com/ss](http://www.johnson-county.com/ss)

Assistance with rent, utilities, and medications for eligible participants.

## ***Housing:***

**The Housing Fellowship:** 322 East 2nd Street, Iowa City, IA 52240

Phone: (319) 358-9212;

[www.housingfellowship.com](http://www.housingfellowship.com)

## **Housing Choice**

Voucher Program:

<https://www.icgov.org/city-government/departments-and-divisions/neighborhood-and-development-services/neighborhood-18>

## ***Healthcare:***

### **Iowa City Free Medical and**

**Dental Clinic:** 2440 Towncrest Drive, Iowa City, IA 52240-6622;

Phone: (319) 337-4459;

[freemedicalclinic.org](http://freemedicalclinic.org)

Provides free outpatient medical and dental services for uninsured and underinsured members of the community

## **Hawk-I**

**Healthcare Coverage:** Iowa offers hawk-i health care coverage for uninsured children of working families. No family pays more than \$40 a month. Some families even pay nothing at all. Website: <http://www.hawk-i.org/>

## ***Food:***

### **Coralville Community Food**

**Pantry:** 1002 5th Street, Coralville, IA 52241

Phone: (319) 337-3663;

[coralvillefoodpantry.org](http://coralvillefoodpantry.org)

### **CommUnity Crisis Food Bank:**

1121 Gilbert Ct., Iowa City, IA 52240-4528

Phone: (319) 351-0140;  
[builtbycommunity.org](http://builtbycommunity.org)

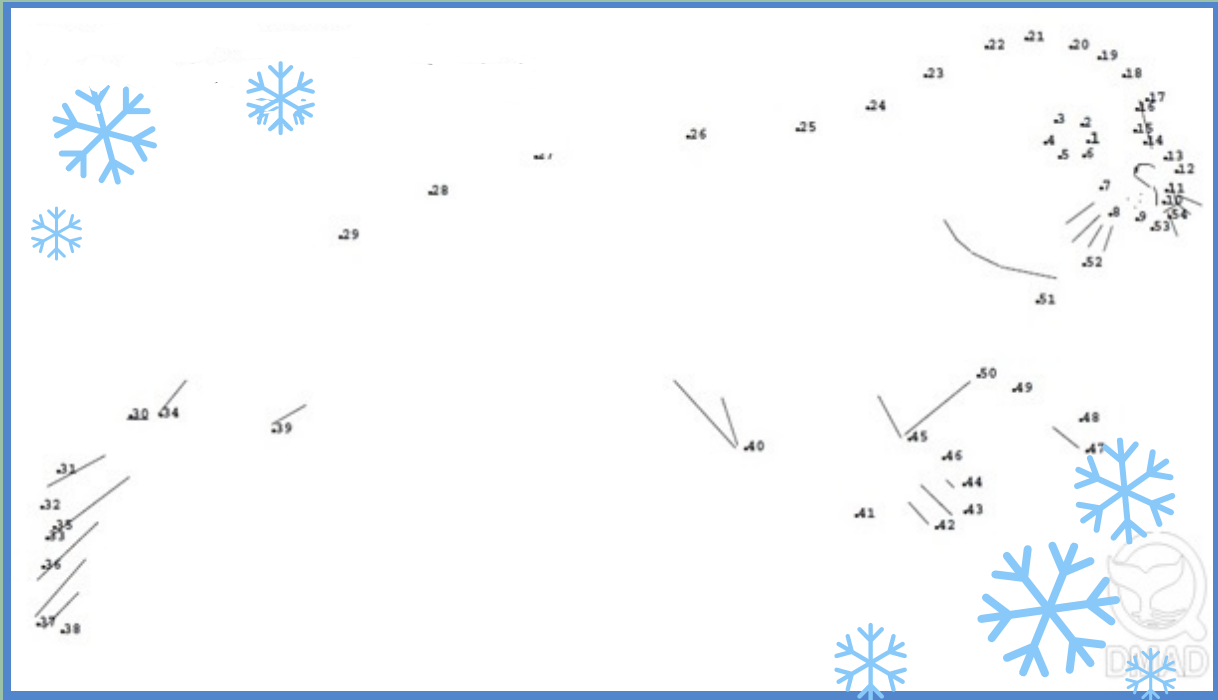




# FUN WITH THE DEVPSY LAB!



# JAMIE THE SEAL



Wow! Jamie the Seal blends in so well in all this winter snow. Help us find them by connecting the dots!



## DID YOU KNOW?

Jamie the seal is a **Leopard Seal!**

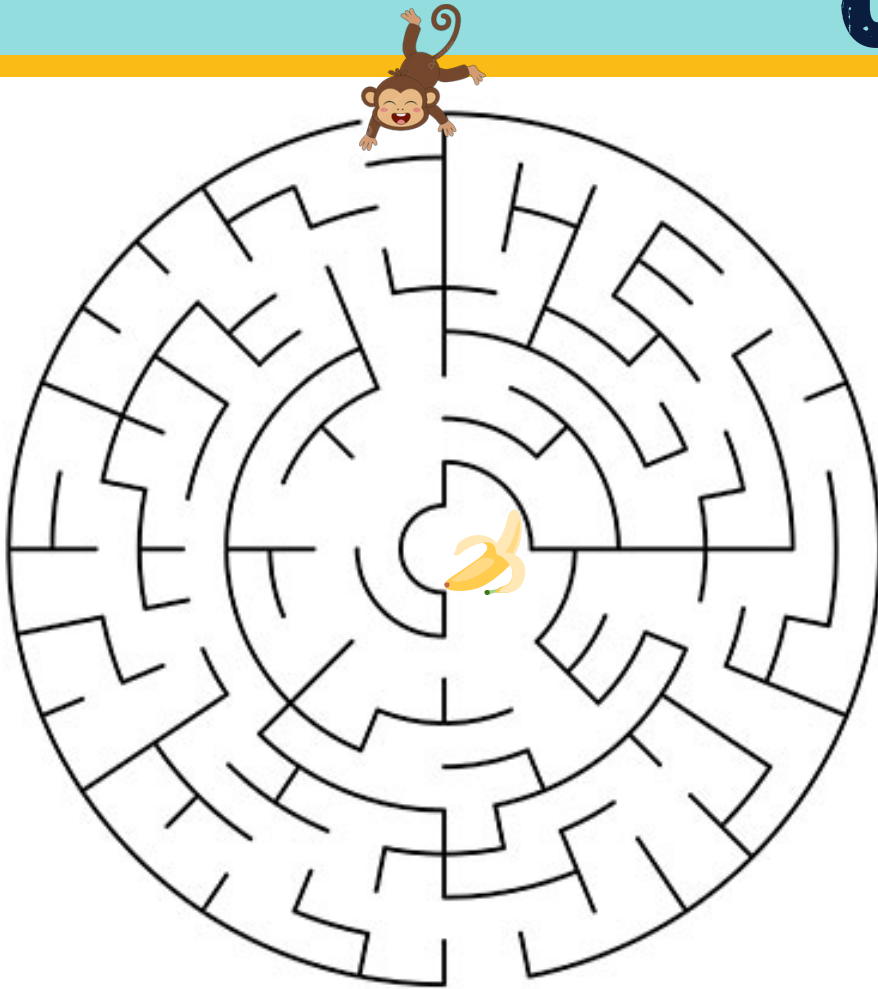
Leopard Seals live in the icy cold arctic and are mostly solitary animals.

When they aren't hunting or sleeping, Leopard Seals will sing to attract mates! Isn't that interesting!

# OH NO!



THE NAUGHTY MONKEY  
IS HUNGRY! HELP HIM  
THROUGH THE MAZE TO  
THE BANANA SO HE CAN  
EAT!



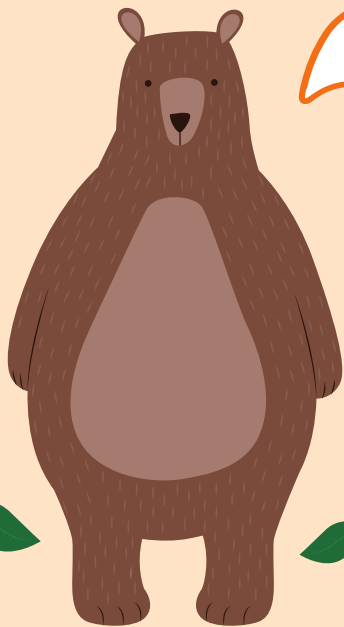
## Word Hunt in the Dev Psy Lab!

S	R	E	Y	S	P	U	R	P	L	E	P	I	G
P	E	R	A	P	U	M	O	N	K	E	Y	R	G
R	S	M	D	R	A	Z	I	W	S	R	E	P	N
I	E	F	R	I	E	N	D	S	N	M	O	R	E
N	A	S	C	A	N	D	Y	Y	M	S	A	X	S
G	R	U	S	K	R	A	R	U	P	W	P	S	S
R	C	E	R	I	E	L	S	R	O	E	A	H	I
M	H	A	O	K	L	F	A	N	R	R	A	S	M
F	H	E	W	R	P	I	S	I	G	M	P	C	O
S	C	E	L	S	P	O	M	I	F	I	S	H	N
T	F	I	G	I	A	E	S	S	D	S	G	O	S
D	R	A	G	O	N	A	W	A	T	E	R	O	A
T	R	E	A	T	S	M	N	I	G	H	T	L	Y
A	G	R	E	E	N	G	O	A	T	A	E	I	S

NIGHT  
EXPERIMENT  
DAY  
SIMON SAYS  
WATER  
SNOW  
APPLE  
FRIENDS  
SPRING  
GREEN GOAT  
SCHOOL  
SUMMER  
SHARK  
OWL  
CANDY  
WIZARD  
PURPLE PIG  
FISH  
GIFT  
RESEARCH  
DRAGON  
TREATS  
MONKEY  
GRASS







Howdy!  
Can you help  
me color in  
my friend, the  
dragon?  
Thank you!

