

3-year-old Child Observation Report Sample: Physical and Cognitive Development

Table of contents

Introduction

Physical and cognitive development of a 3-year-old male named Christian has been evaluated by the completion of several exercises, which were video recorded. A therapist directed these activities, which also included his six-year-old sister, Clara. Christian spends two days a week at kindergarten and the rest at home with his parents and sister, when she is not at school. He is more interested in active play such as riding a balance bike (no pedals) and skateboard of which he has reasonable command, rather than performing sedentary activities like drawing. This assignment focuses on gross motor, fine motor, language and communication, cognitive and psychosocial area milestones and whether or not Christian has achieved them. Christian is observed in a classroom where multiple activities are offered such as drawing, playing with toys and various physical events like hopping and catching a ball. Information is also sourced from his parents. His development will be compared to what is expected of a three-year-old (Queensland Health Child Development Milestones) to establish whether the appropriate standards have been reached. Theories of lifespan development including Piaget's and Erikson's will be linked to Christian's performance.

In-Depth Analysis (Gross Motor)

Movement is a sequence of patterns of both gross and fine motor skills along with fundamental movement skills. Christian undergoes various activities which involve controlling larger muscle groups; for example, walking, throwing, or jumping. These abilities aid development and coordination of the arms, legs, hands, feet, head, neck and torso. Important characteristics of gross skills include postural control (both static stability and dynamic control), body awareness and muscularity. These are essential skills for life, and supporting the growth of a child's gross motor development enhances their short and long-term physical outcomes.

Physical Development Observation Essay

Karin Nielsen-Saines

Physical Development Observation Essay:

This is likewise one of the factors by obtaining the soft documents of this **Physical Development Observation Essay** by online. You might not require more times to spend to go to the ebook creation as without difficulty as search for them. In some cases, you likewise reach not discover the message Physical Development Observation Essay that you are looking for. It will completely squander the time.

However below, afterward you visit this web page, it will be suitably categorically easy to acquire as capably as download guide Physical Development Observation Essay

It will not allow many become old as we accustom before. You can attain it while feign something else at house and even in your workplace. for that reason easy! So, are you question? Just exercise just what we come up with the money for under as competently as review **Physical Development Observation Essay** what you in imitation of to read!

https://crm.avenza.com/public/Resources/index.jsp/Plant_Pathology_5th_Edition_By_Agrios.pdf

Table of Contents Physical Development Observation Essay

1. Understanding the eBook Physical Development Observation Essay
 - The Rise of Digital Reading Physical Development Observation Essay
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Development Observation Essay
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Development Observation Essay
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Development Observation Essay

- Personalized Recommendations
 - Physical Development Observation Essay User Reviews and Ratings
 - Physical Development Observation Essay and Bestseller Lists
5. Accessing Physical Development Observation Essay Free and Paid eBooks
- Physical Development Observation Essay Public Domain eBooks
 - Physical Development Observation Essay eBook Subscription Services
 - Physical Development Observation Essay Budget-Friendly Options
6. Navigating Physical Development Observation Essay eBook Formats
- ePub, PDF, MOBI, and More
 - Physical Development Observation Essay Compatibility with Devices
 - Physical Development Observation Essay Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Physical Development Observation Essay
 - Highlighting and Note-Taking Physical Development Observation Essay
 - Interactive Elements Physical Development Observation Essay
8. Staying Engaged with Physical Development Observation Essay
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Development Observation Essay
9. Balancing eBooks and Physical Books Physical Development Observation Essay
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Development Observation Essay
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Development Observation Essay
- Setting Reading Goals Physical Development Observation Essay
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Development Observation Essay

- Fact-Checking eBook Content of Physical Development Observation Essay
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Physical Development Observation Essay Introduction

In the digital age, access to information has become easier than ever before. The ability to download Physical Development Observation Essay has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Physical Development Observation Essay has opened up a world of possibilities. Downloading Physical Development Observation Essay provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Physical Development Observation Essay has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Physical Development Observation Essay. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Physical Development Observation Essay. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Physical Development Observation

Essay, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Physical Development Observation Essay has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Physical Development Observation Essay Books

1. Where can I buy Physical Development Observation Essay books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Physical Development Observation Essay book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Physical Development Observation Essay books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.

7. What are Physical Development Observation Essay audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
10. Can I read Physical Development Observation Essay books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Physical Development Observation Essay :

plant pathology 5th edition by agrrios

plasma extractor service manual

pizza slice template coloring

plato algebra 1b unit 3 post test

pixl november 2014 biology

pixl mark scheme maths edexcel

platinum power sellers wholesale guide

plant classification dichotomous key documents

plant life stages jumble answers

planetary motion worksheet modeling workshop project 2006

plato answer for algebra b

placement test for 10th grade

planning paper chemistry 52 june 2013

pixel mathematics gcse march 2015 paper 1

plant and animal interdependence 2nd grade

Physical Development Observation Essay :

a la pintura poema del color y la línea 1945 2976 el libro de - Feb 13 2023

web homenaje a la más temprana vocación de rafael alberti más tarde abandonada a favor de la poesía a la pintura poemario en el que la palabra sustituye a la pincelada en

a la pintura poema del color y la linea 1945 1967 - Dec 11 2022

web sep 5 2018 abebooks com a la pintura poema del color y la linea 1945 1967 34x25 208p enc cart ed sobrecubierta plástico 95 ilustraciones semblanza

a la pintura poema del color y la linea 1945 2976 copy - Sep 27 2021

el corte inglés - Sep 08 2022

web feb 24 2023 a la pintura poema del color y la linea 1945 2976 is available in our digital library an online access to it is set as public so you can download it instantly our

a la pintura poema del color y la línea 1945 2976 dialnet - Apr 15 2023

web a la pintura poema del color y la línea 1945 2976 autores rafael alberti editores alianza año de publicación 2004 país españa idioma español isbn 978 84 206

a la pintura poema del color y la linea 1945 2976 art basel - Aug 07 2022

web américa gonzales es empleada de un hotel en una isla en la costa de puerto rico donde limpia los cuartos de extranjeros ricos que miran de reojo su madre alcohólica le tiene

a la pintura poema del color y la línea 1945 2976 el libro de - Mar 14 2023

web isbn 13 978 8420656991 peso del producto dimensiones 11 x 1 2 x 17 5 cm clasificación en los más vendidos de amazon nº265 911 en libros ver el top 100 en

amazon com a la pintura poema del color y la línea 1945 2976 - Nov 10 2022

web amazon com a la pintura poema del color y la línea 1945 2976 spanish edition 9788420656991 alberti rafael libros

a la pintura poema del color y la linea 1945 2976 robert - Dec 31 2021

web may 7 2023 a la pintura poema del color y la linea 1945 2976 is available in our book collection an online access to it is set as public so you can download it instantly our

a la pintura poema del color y la línea 1945 1976 google books - Jul 18 2023

web homenaje a la más temprana vocación de rafael alberti más tarde abandonada a favor de la poesía a la pintura poemario en el que la palabra sustituye a la pincelada en

a la pintura poema del color y la línea 1945 1976 selección - Aug 19 2023

web rafael alberti al color a ti sonoro puro quieto blando incalculable al mar de la paleta por quien la neta luz la sombra neta en su trasmutación pasan soñando a ti por quien

maya cartonera ix - Mar 02 2022

web augusto branco tal como o espaço vazio numa pintura o tempo em que nada acontece tem seu propósito de bono toda a obra de um homem seja em literatura música

a la pintura poema del color y la linea 1945 2976 copy - Oct 29 2021

web may 7 2023 exilio legendario y que ha estado presente en la historia y en el corazón de su pueblo sin importar la distancia geográfica que lo separa todos los elementos

a la pintura poema del color y la línea 1945 1976 selección - May 16 2023

web a la pintura poema del color y la línea 1945 1976 selección biblioteca virtual miguel de cervantes a la pintura poema del color y la línea 1945 1976 selección

a la pintura poema del color y la linea 1945 2976 uniport edu - Nov 29 2021

web jun 28 2023 a la pintura es una de las cimas literarias de la amplia obra que el poeta compone en argentina en donde comienza ese exilio político que durará treinta y nueve

rafael alberti a la pintura poema del color y l - Oct 09 2022

web a la pintura poema del color y la línea 1945 2976 bolsillo tapa blanda

a la pintura poema del color y la linea 1945 2976 spanish - Jun 17 2023

web apr 6 2004 a la pintura poema del color y la línea 1945 2976 spanish edition alberti rafael 9788420656991 amazon com books books

pdf a la pintura poema del color y la linea 1945 2976 - Jun 05 2022

web apr 19 2023 a la pintura es una de las cimas literarias de la amplia obra que el poeta compone en argentina en donde comienza ese exilio político que durará treinta y nueve

a la pintura poema del color y la linea 1945 2976 2022 - Apr 03 2022

web la tinta de un poema 6 maya cartonera es un proyecto editorial artesanal con trabajo de costura manual que tiene el objetivo de ser un espacio para para compartir creaciones

a la pintura poema del color y la linea 1945 2976 pdf - May 04 2022

web apr 21 2023 our digital library saves in combination countries allowing you to get the most less latency era to download any of our books in the manner of this one merely

9788420656991 a la pintura poema del color y la línea 1945 - Jan 12 2023

web abebooks com a la pintura poema del color y la línea 1945 2976 spanish edition 9788420656991 by alberti rafael and a

great selection of similar new used and

a la pintura poema del color y la linea 1945 2976 robert - Jul 06 2022

web a la pintura poema del color y la linea 1945 2976 the legacies of two world wars feb 07 2021 the us invasion of iraq in 2003 was done mainly if one is to believe us

poemas de pintura pensador - Feb 01 2022

web amrica gonzales es empleada de un hotel en una isla en la costa de puerto rico donde limpia los cuartos de extranjeros ricos que miran de reojo su madre alcohlica le tiene

l altro l atteso le omelie del martire di tibhiri pdf - May 21 2022

web l altro l atteso le omelie del martire di tibhiri 3 3 embrionalmente una indicazione etica che non dovrà andare perduta storie segrete delle famiglie reali o misteri della

l altro l atteso le omelie del martire di tibhiri copy wp publish - Aug 24 2022

web l altro l atteso le omelie del martire di tibhiri il r liceo ginnasiale di lodi nell anno scolastico 1875 76 sulle cagioni dello scisma religioso d ingleterra studio

l altro l atteso le omelie del martire di tibhiri copy - Sep 24 2022

web pages of l altro l atteso le omelie del martire di tibhiri a mesmerizing literary creation penned by way of a celebrated wordsmith readers attempt an enlightening

l altro l atteso le omelie del martire di tibhiri 2022 - Jul 03 2023

web l altro l atteso le omelie del martire di tibhiri il comento alla divina commedia continuazione del comento alla divina commedia la medicina e chirurgia popolare

l altro l atteso le omelie del martire di tibhirine chergé - Mar 31 2023

web compra l altro l atteso le omelie del martire di tibhirine spedizione gratuita su ordini idonei

l altro l atteso le omelie del martire di tibhiri 2023 - Oct 06 2023

web l altro l atteso le omelie del martire di tibhiri universal commercial correspondence in six languages english german french dutch italian and spanish feb 23 2021

l altro l atteso le omelie del martire di tibhiri - Jun 02 2023

web l altro l atteso le omelie del martire di tibhiri 3 3 tradizione di studi spesso contraddistinta in italia e fuor d italia da frequentazioni corsare distratte e replicanti

l altro l atteso le omelie del martire di tibhiri - Feb 27 2023

web l altro l atteso le omelie del martire di tibhiri eventually you will extremely discover a other experience and achievement by spending more cash still when complete you

I altro l atteso le omelie del martire di tibhiri uniport edu - Jan 17 2022

web jun 27 2023 the pronouncement l altro l atteso le omelie del martire di tibhiri pdf that you are looking for it will totally squander the time however below once you visit

I altro l atteso le omelie del martire di tibhiri pdf - Oct 26 2022

web l altro l atteso le omelie del martire di tibhiri 5 5 edition annotated by celebrated bruno scholar ingrid d rowland features the text in its original italian alongside an

I altro l atteso le omelie del martire di tibhiri full pdf - Jul 23 2022

web apr 2 2023 l altro l atteso le omelie del martire di tibhiri as recognized adventure as competently as experience very nearly lesson amusement as well as union can be

I altro l atteso le omelie del martire di tibhirine cultura - Nov 26 2022

web l altro l atteso le omelie del martire di tibhiri elementi di filosofia ad uso de giovanetti quinta edizione breve prospetto della storia universale per servire

I altro l atteso le omelie del martire di tibhirine by christian - Sep 05 2023

web libri di l altro unilibro 2 un introduzione alle omelie di christian de chergé pasqua a roma le omelie segrete del successore di pietro dimensioni dello spirito l altro l atteso

I altro l atteso le omelie del martire di tibhiri pdf uniport edu - Jun 21 2022

web l altro l atteso le omelie del martire di tibhiri del regolare le acque della valle spoletina ed i torrenti in generale e del modo di arrestare le ghiaje fra monti etc musica

I altro l atteso le omelie del martire di tibhiri - Mar 19 2022

web apr 9 2023 this l altro l atteso le omelie del martire di tibhiri as one of the most on the go sellers here will definitely be accompanied by the best options to review l altro l

I altro l atteso le omelie del martire di tibhirine ebook - Dec 28 2022

web l altro l atteso le omelie del martire di tibhirine aux éditions san paolo edizioni per la prima volta a vent anni esatti dal martirio dei monaci di tibhirine giungono in italia le

il trovatore act iv timor di me d amor sull ali rosee - Nov 14 2021

I altro l atteso le omelie del martire di tibhiri pdf uniport edu - Feb 15 2022

web evaluation l altro l atteso le omelie del martire di tibhiri what you past to read la civiltà cattolica pubblicazione periodica per tutta l italia 1867 nel mare aperto della storia agostino giovagnoli 2021 01 14t00 00 00 01 00 andrea riccardi è uno dei protagonisti del dibattito sociale politico e religioso del nostro tempo

I altro l atteso le omelie del martire di tibhiri - Apr 19 2022

web l altro l atteso le omelie del martire di tibhiri downloaded from molecule element502 com by guest bryant maldonado la trama nascosta storie

I altro l atteso le omelie del martire di tibhirine - Jan 29 2023

web may 18 2016 per la prima volta a vent anni esatti dal martirio dei monaci di tibhirine giungono in italia le omelie di padre de cherg 233 conosciuto da noi soprattutto per

I altro l atteso le omelie del martire di tibhiri pdf 2023 - Dec 16 2021

web provided to youtube by rca red sealil trovatore act iv timor di me d amor sull ali rosee anna moffo giuseppe verdi rca italiana orchestra fra

I altro l atteso le omelie del martire di tibhirine apple books - Aug 04 2023

web may 18 2016 per la prima volta a vent anni esatti dal martirio dei monaci di tibhirine giungono in italia le omelie di padre de chergé conosciuto da noi soprattutto per il

I altro l atteso le omelie del martire di tibhirine by christian de - May 01 2023

web omelie del martire di tibhirine e lachiesa liturgia del 29 giugno 2019 recensioni nuova citeaux l altro l atteso le omelie del martire di tibhirine l altro l atteso le omelie del martire di tibhirine libri consigliati pagina 5 libreria del duomo l altro l atteso le omelie del martire di tibhirine de omelie parrocchia sant antonio di

amazon com emotional intelligence 3 books in 1 emotional - Sep 08 2023

web emotional intelligence 3 books in 1 emotional intelligence for leadership improve your social skills and empath a complete guide to master your emotions and feeling

emotional intelligence 3 books in 1 audible com - Dec 31 2022

web emotional intelligence mastery 3 1 bundle book 1 emotional intelligence book 2 how to analyze people book 3 cognitive behavioral therapy audible audiobook

if you re going to read books on emotional intelligence - Feb 01 2023

web emotional intelligence also known as eq emotional intelligence 3 books in 1 uncovers all you need to know about eq inside you will learn the following emotional

emotional intelligence 3 books in 1 audible com - May 04 2023

web emotional intelligence 3 books in 1 learn how to raise your self esteem and develop willpower using cognitive behavioral therapy to overcome anxiety and depression by

emotional intelligence 3 books in 1 audible com - Apr 03 2023

web jul 14 2016 a great starter on eq 3 coaching for emotional intelligence the secret to developing the star potential in

your employees this book provides a carefully

emotional intelligence 3 books in 1 google books - Sep 27 2022

web sep 14 2023 1 emotional intelligence why it can matter more than iq by daniel goleman ph d this new york times bestseller popularized the concept of emotional

emotional intelligence 7 books in 1 improve your life - Jun 24 2022

web the 20 best emotional intelligence books recommended by tony robbins dan dakich doug ulman neal katyal and trevor ncube

20 best new emotional intelligence books to read in 2023 - Oct 17 2021

emotional intelligence by daniel goleman 9780553804911 - May 24 2022

web apr 22 2021 the 15 best books on emotional intelligence 1 emotional intelligence why it can matter more than iq by daniel goleman check price on amazon written

emotional intelligence 3 books in 1 emotional intelli - Oct 09 2023

web nov 9 2019 emotional intelligence 3 books in 1 emotional intelligence for leadership improve your social skills empath a complete guide to master your

10 best emotional intelligence books to read 2023 list - Feb 18 2022

web nov 24 2022 read this book if emotional intelligence is a new concept to you you enjoy reading stories and case studies you're looking for an easy read top pick for

emotional intelligence mastery 3 books in 1 goodreads - Aug 07 2023

web read reviews from the world's largest community for readers 3 books in 1 emotional intelligence empath and self discipline do you possess everything t emotional

12 must read books that will raise your emotional - Jun 05 2023

web emotional intelligence 3 books in 1 emotional intelligence for leadership improve your social skills and empath a complete guide to master your emotions and feeling

emotional intelligence mastery 3 1 bundle book 1 emotional - Oct 29 2022

web feb 27 2019 master emotional intelligence 7 books in 1 emotional intelligence how to analyze people cognitive behavioral therapy self discipline manipulation anger

15 best books on emotional intelligence live bold and bloom - Mar 22 2022

web the influence of words on emotions plays an important role in emotional intelligence anger and resentment sadness loss and pain fear guilt and regret the power to

21 best books on emotional intelligence reviewed 2022 - Dec 19 2021

web a list of 20 new emotional intelligence books you should read in 2023 such as be the light decoding human nature and emotional intelligence

emotional intelligence 3 books in 1 retraining your b - Jul 06 2023

web read reviews from the world s largest community for readers 3 books in 1 included in this book collection 1 retraining your how to control your emotion emotional

20 best emotional intelligence books of all time bookauthority - Apr 22 2022

web mar 14 2023 here are some of the best emotional intelligence books to read in 2023 1 emotional intelligence 2 0 by travis bradberry and jean greaves emotional

master emotional intelligence 7 books in 1 emotional - Aug 27 2022

web jan 8 2020 4 67 6 ratings3 reviews emotional intelligence is an aspect of intelligence linked to the ability to consciously recognize use understand and manage one s own

26 best emotional intelligence books reviews - Nov 29 2022

web they are the major obstacles to happiness and peace of mind this book is your comprehensive guide to remove stress from your life and start living happily this book

the 20 best emotional intelligence books to read before 30 - Mar 02 2023

web jul 30 2018 lead if you re going to read books on emotional intelligence please start with these 12 boomers xers and millennials alike should benefit from reading some of

100 books every ceo and founder should read inc com - Nov 17 2021

20 emotional intelligence books for free pdf infobooks org - Jan 20 2022

web nov 6 2023 a blast of the non obvious this week i m recommending a list of more surprising titles courtesy of inc and entrepreneur rohit bhargava the first inc non

10 best emotional intelligence books to transform your life - Jul 26 2022

web daniel goleman is the new york times bestselling author of the groundbreaking book emotional intelligence a psychologist and science journalist he reported on brain and