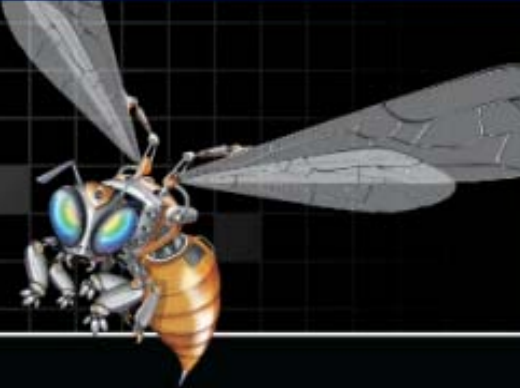


NORTH CAROLINA

User's Guide

for **PowerAlgebra.com**
and **PowerGeometry.com**



Prentice Hall

Algebra 1
Geometry
Algebra 2



PearsonSchool.com
800-848-9500

PEARSON

Welcome!



This guide will lead you through PowerAlgebra.com and PowerGeometry.com.

Go digital with online Student Editions, video, audio, interactive content, and personalized teaching and learning tools. PowerAlgebra.com and PowerGeometry.com seamlessly connect the print and digital worlds to engage students in the study of mathematics and to inspire teachers with easy-to-navigate instructional support and tools for planning.

- | | | | |
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Getting Started

2

PEARSON

Welcome to PowerAlgebra.com!

Your portal into the digital world of Prentice Hall Algebra 1, Geometry, and Algebra 2.

Log on Now!

Click here!

Pearson SuccessNet

Great for Students!

- Download student-made videos connecting math to your world.
- Use the online glossary to see math definitions in English and Spanish.
- Get in gear for the lesson with the online Solve It.
- Explore math concepts using the interactive activities.
- Download step-by-step problems with instant replay.
- Get and view your assignments online.
- Get extra practice and review online.

Great for Teachers!

- Lesson Planning**
Customize lesson plans to meet your needs. Fill the academic calendar with your lesson plans.
- Classroom Management**
Manage grades and assignments online.
- Administer**
Administer tests and quizzes to students online. Have assessments graded automatically. Have targeted remediation assigned based on student performance.
- Resources**
Customize and edit worksheets. Access Student Edition and Teacher's Edition online.

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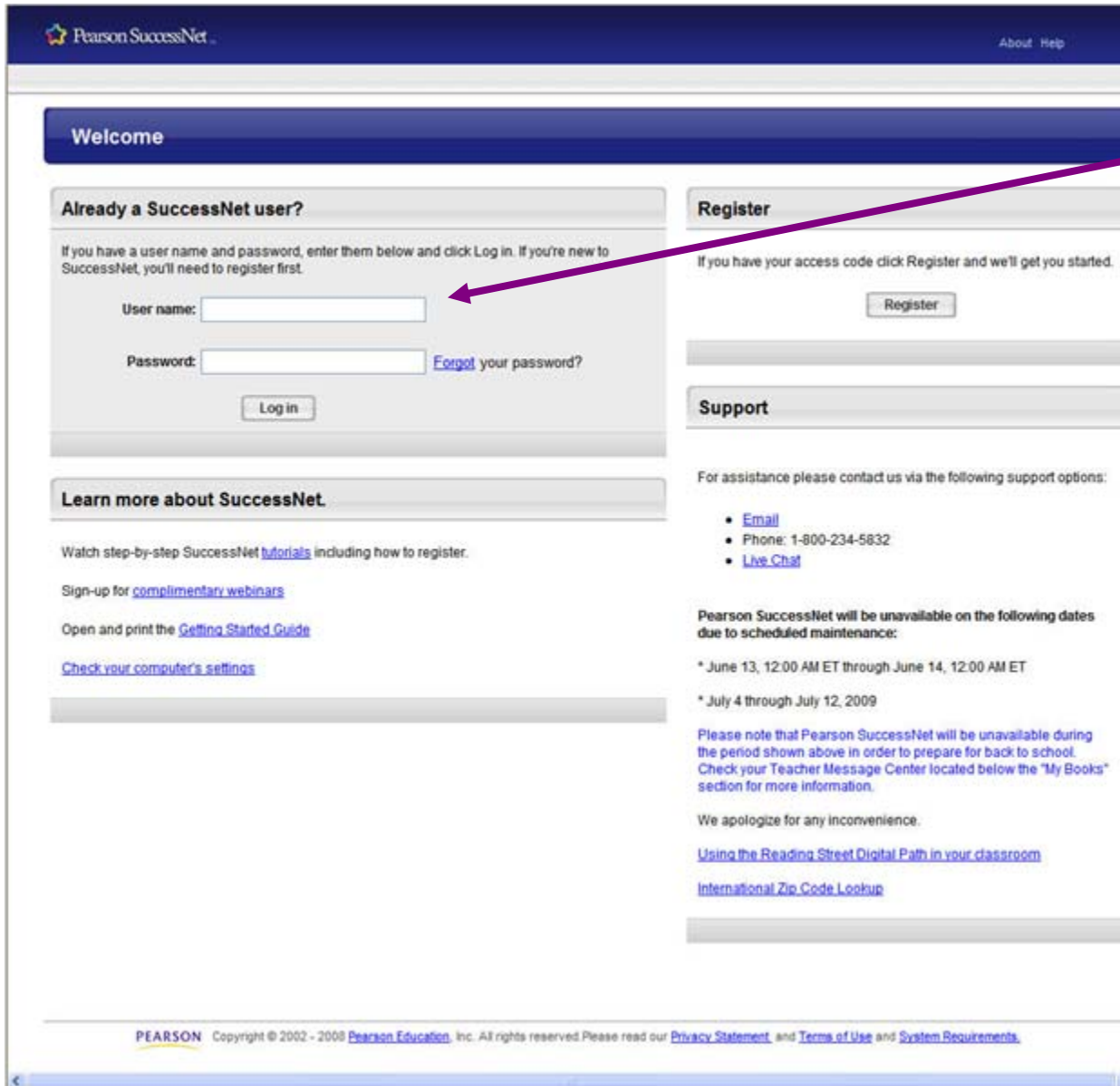
1

Launch your browser and then go to **PowerAlgebra.com** or **PowerGeometry.com**.

2

Click on **Pearson SuccessNet**.

Getting Started

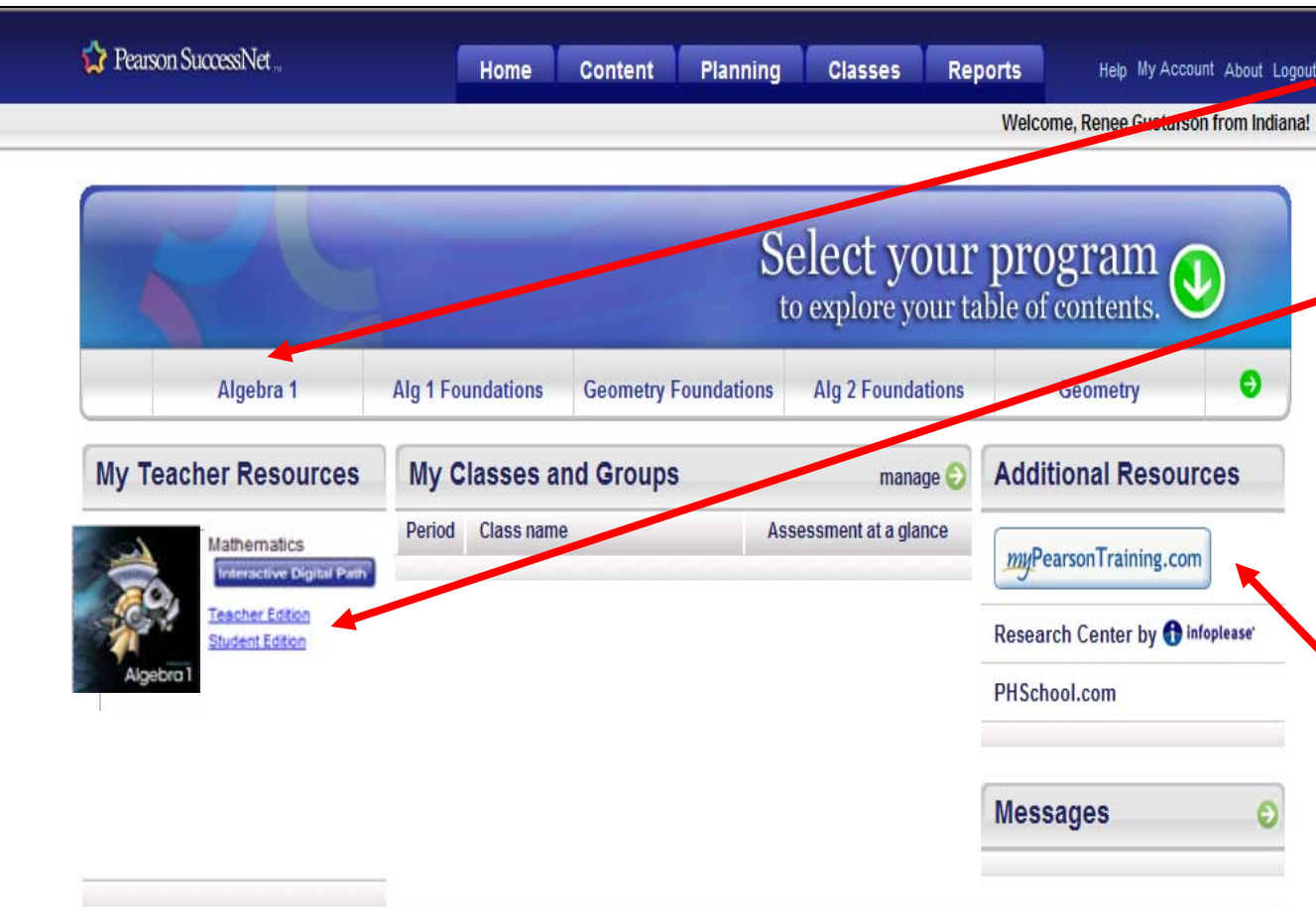


1

Enter the **User name** and **Password** to log in.

User Name: NCMATH
Password: 123456

Your Home Page



1

Choose your course tab on the border at the top of the screen

2

Access your **Student** and **Teacher Edition** and **resources** from links on the left side of the screen. Multiple courses can be accessed through the same user name and home page.

3

Stay informed with **Message** updates and online professional development at **myPearsonTraining.com**.

Your Home Page

5

Access your online Student Edition and Teacher's Editions through the home page. **My eBook** is your online student edition with built-in audio support as well as links to student worksheets.

PEARSON Florida Algebra 1 Student Edition Print

7-5 Division Properties of Exponents

Objective: To divide powers with the same base by using a quotient rule.

Check Your Understanding

Problem 1: Dividing Algebraic Expressions

Problem 2: Dividing Numbers in Scientific Notation

Page 440

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1

Access student workbook pages immediately through the **Resources** link.

2

The navigation bar allows you to quickly access student and teacher edition pages.

Teaching a Lesson



1

Click a Chapter.

2

Click a Lesson.

3

Choose from the menu to **View** the lesson, **Assign** it to your students, find **Information**, such as state standards (*coming soon*), or add it to your **Lesson Planner**.

Teaching a Lesson

The screenshot shows the Pearson SuccessNet interface for Algebra 1. At the top, there are navigation tabs: Home, Content, Planning, Classes, and Reports. Below these are links for Table of Contents, Tests, and Search. The main header features the Prentice Hall Algebra 1 logo and a navigation bar with categories: Algebra 1, Alg 1 Foundations, Geometry Foundations, Alg 2 Foundations, and Geometry. On the left, there is a 'Search By' section with options for Keyword and Media Type, and a 'Favorites' section. The main content area displays search results for the keyword 'slope'. The results are presented in a table with columns for Image, Title, Type, and Sub Type.

Image	Title	Type	Sub Type
	7-1: Zero and Negative Exponents	Lesson	
	Lesson 7-7	Practice	Online Homework
	Lesson 7-4	Practice	Online Homework
	Lesson 7-1	Practice	Online Homework

1

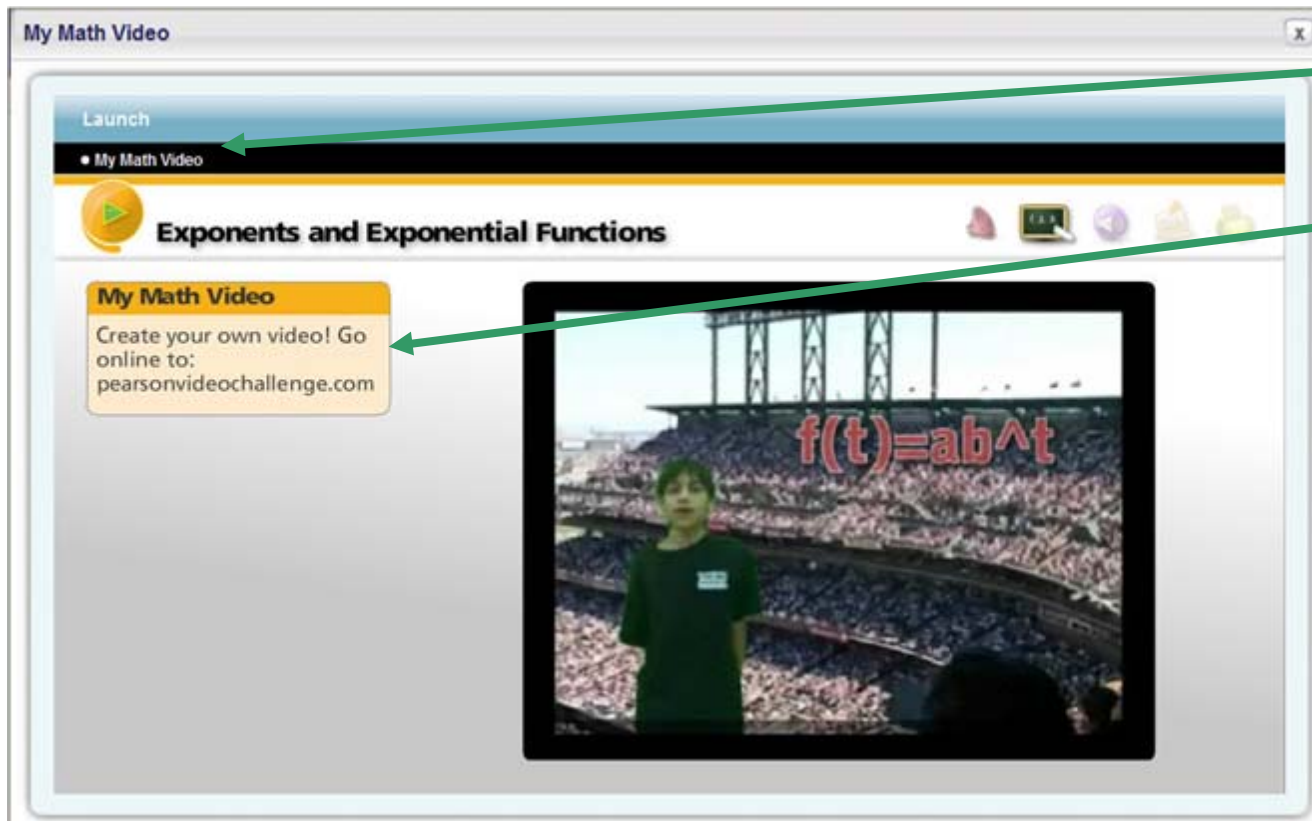
Click on **Search**.

2

Multiple search options allow you to find and teach a lesson by Keyword, Standards, or Media Type. You can also search for selected worksheets to assign to students.

Launch

My Math Video presents content in a real-life context – developed and produced by students.



1

Each chapter begins with a My Math Video.

2

Students are encouraged to create their own videos for the chapter through the Pearson Video Challenge.

3

To exit the video, click the **X** in the upper right-hand corner.

Launch

Solve It! presents a problem that helps connect what students know to an important concept in the lesson.

The screenshot shows a software interface for a lesson titled "7-6: Exponential Functions". At the top, there are navigation tabs: "Launch", "Instruction", "Practice", and "Assessment". Below these, there are sub-tabs: "Solve It!" and "Dynamic Activity". The main content area features a "Solve It! Getting Ready!" section with a blue background. It contains a word problem about a soccer team's practice drill, two clipboards labeled "Plan 1" and "Plan 2" with their respective practice schedules, and a speech bubble from a cartoon character asking a question. At the bottom right of the content area, there are navigation arrows and the text "2 of 4".

1

Get Ready for the lesson using the **Solve It!**

2

Use the arrows at the bottom of the screen to move through the Solve It!

Instruction

Online Problems guide students through problems with step-by-step solutions and helpful tools for support.

The screenshot shows a web browser window titled "7-3: Multiplying Powers With the Same Base". The interface includes a navigation bar with "Launch", "Instruction", "Practice", and "Assessment" tabs. Below this is a breadcrumb trail: "Problem 1", "2", "3", "4", and "Alternative Problem 2". The main content area is titled "Problem 2: Multiplying Powers in Algebraic Expressions". It asks the user to find the simplified form of the expression $4z^5 \cdot 9z^{-12}$. A "Plan" section provides a hint: "Which parts of the expression can you combine? You can group the coefficients and multiply. You can also write any powers that have the same base with a single exponent." A cartoon character is visible on the left. At the bottom right, there are navigation arrows and a "3 of 12" indicator.

1

Click on a problem to begin. Use the audio icon to turn off the avatar's voice.

2

Alternative Problems, when available, provide opportunity to differentiate instruction.

3

Click on the arrows to guide through the problem at your own pace. You can go back to steps at any time to review.

Practice

Online Homework can be assigned to students through the classroom management system.

7-6: Exponential Functions

Launch — Instruction — Practice — Assessment

• Online Homework

Lesson 7-6

Click the printer icon in the toolbar to print this page.

Practice and Problem-Solving Exercises

A Practice Determine whether each table or rule represents an exponential function. Explain why or why not.

8.

x	1	2	3	4
y	2	8	32	128

9.

x	0	1	2	3
y	6	9	18	33

10. $y = 4 \cdot 5^x$
14. $y = -3 \cdot 0.25^x$

11. $y = 12 \cdot x^2$
13. $y = (x + 3)$

Evaluate each function for the given value.

14. $f(x) = 6^x$ for $x = 2$
15. $g(t) = 2 \cdot 0.4^t$ for $t = -2$

18. **Finance** An investment of \$5000 doubles in value every decade. The function $f(x) = 5000 \cdot 2^x$, where x is the number of decades, models the growth of the value.

1 of 3

1

Click on **Key Concepts** for help as you complete homework.

2

Vocabulary provides math definitions in English and Spanish, in print and read aloud

3

Print this page.

Practice

MathXL® for School exercises provide additional practice at the middle and end of every chapter.

MathXL: Mid-Chapter Practice and Review

Practice

• MathXL: Mid-Chapter Practice

MathXL: Mid-Chapter Practice and Review

Exercise 1
Exercise 2
Exercise 3
Exercise 4
Exercise 5
Exercise 6
Exercise 7
Exercise 8
Exercise 9
Exercise 10

Simplify the following expression.

5^{-3}

$5^{-3} =$ (Type an integer or a simplified fraction.)

Help Me Solve This
View an Example
Print

Enter any number or expression in the edit field, then click Check Answer.

1

Click on the link to each exercise.

2

Complete each exercise and get instant feedback. Examples and tutorials support each exercise.

Assessment

Students can test their knowledge using the **Self Quiz** for each lesson.

7-1: Zero and Negative Exponents

Launch — Instruction — Practice — Assessment

• Self Quiz

Lesson 7-1

1. What is the simplified form of the expression?
a. 4^{-2}
b. $(12.72)^0$
2. What is the simplified form of the expression?
a. $12y^{-3}z^{-4}$
b. $\frac{2}{c^{-7}}$
3. What is the value of $4x^{-3}y^2$ for $x = -2$ and $y = 4$?
4. The number of hits on a website doubles every month. About 29,200 people visited the website during May. The expression $29,200 \cdot 2^t$ models the number of visitors after t months. Evaluate the expression for $t = 0$ and $t = -3$. Describe what each value of the expression represents in the situation.

◀ 1 of 2 ▶

1

Use the questions to check what students have learned during the lesson.

2

Click on the forward arrow to get responses for each question.

Classroom Management Resources

14

Coming
Soon!

The **Online Lesson Planner** saves you time and helps you align your lessons to standards.

Lesson Plans

Month Week Day

Tip! Drag your lesson into a calendar day.

May, 2009

Monday	Tuesday	Wednesday	Thursday	Friday	Sat/Sun
					1 2
					3 4
4	5	6	7	8	9
					10
11	12	13	14	15	16
					17
18	19	20	21	22	23
					24
25	26	27	28	29	30
					31

1

Easily click and drag **Lesson Plans** into the **Lesson Planner Calendar**.

2

View lesson plans by **month, week, or day**.

You can auto schedule lesson plans for the entire year, including days to block out!

Classroom Management Resources

15

Coming
Soon!

Quickly and easily manage your classes, students and critical student data with tools to generate reports.

<input type="checkbox"/>	Student Name	User Name	Grade	Student ID	SuccessNet Language
<input type="checkbox"/>	Clifford, Connor	hsmathreview3	09		English
<input type="checkbox"/>	Kelly, Ed	hsmathreview6	09		English
<input type="checkbox"/>	O'Dea, Keira	hsmathreview4	09		English
<input type="checkbox"/>	O'Reilly, Maddie	hsmathreview_alg1	09		English
<input type="checkbox"/>	Santiago, Theresa	hsmathreview5	09		English

1

Add students manually or import class rosters.

2

Assign **diagnostic tests** for a course and **edit** settings for students based on results.

Classroom Management Resources

16

Coming
Soon!

Assignments

Planning > Assignments

Class/Group: Algebra 1 Show: All

M - Assignment needs manual scoring

	Assignment name	Type	Start date	End date
L	7-6: Exponential Functions	Lesson	05/31/2009	06/14/2009
L	MathXL: Mid-Chapter Practice and Review	Lesson	05/31/2009	06/05/2009
L	My Math Video	Lesson	05/31/2009	06/02/2009

1

Students receive To Do lists listing assignments with due dates and tests.

Classroom Management Resources

17

Coming Soon!

Reports are simple to run and help you track student and class performance.

1

Click on Reports

2

See how each student is doing on each standard.

Class Standards Report for Washington Middle/High School

Key Mastered Not Mastered Not Attempted

	8OH P8 Select appropriate operations to solve problems...	8OH P9 Use appropriate operations to solve problems...	8OH P10 Evaluate a solution for reasonableness.	8OH P11 Use multiplication by a constant factor...	8OH P12 Communicate mathematically
# of students who have mastered standards	12	29	25	24	
Total Students	30	30	30	30	
Andrew Lauer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Belinda Cortez	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Christopher Hale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Dora diConti	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Edward Robertson	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Emily Whitham	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Felicity Withers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
George Slate	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Kevin Jackson	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Marcus Cooper	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Mark Jacobs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Susan Kim	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	