

Who is it for?

If you are going into grades 3 to 9 then this camp is designed for you! Camp has mixed age groups and will be suitable for both younger and older students. This allows you to send siblings together.

When is camp?

We are running two camps this year: July 15-19, and August 12-16. Camp runs 8:30 to 4:30 each day, and there is a supervised lunch break from 12:30 to 1:00 each day. Children should bring their own bag lunch. A nutritious snack will be provided in the morning and afternoon. Please indicate on the registration form if your child has any allergies. Supervision will not be available before 8:15 am and pickup should be completed each day by 4:45pm

Do they get to keep a robot?

Yes, during the week they will learn how to program a robot called Codey Rocky and then they get to keep this robot at the end of the week. It is a great robot to learn on as it can scale from a really simple block program all the way to advanced languages.

If you have any questions, or for more information contact Mr. Reed at Regina Christian School:

Phone: 306-775-0919

Email: chris.reed@rbc.sk.ca

Registration Information:

Child's Full Name: _____

Age: _____ Grade: _____ (Fall 2024)

Sask Health No.: _____

Allergies or Medical Conditions Yes No

If yes, provide details: _____

Guardian Name: _____

Guardian email: _____

Physical Address: _____

City: _____ Postal Code: _____

Home Ph: _____ Work Ph: _____

Emergency Contact: _____

Please indicate which camp you would like to register for:

July 15-19, 2024 August 12-16, 2024

Camp Cost:

\$200 My camper will bring a Codey Rocky robot they already own.

\$350 My camper will need to be provided with a Codey Rocky robot that they get to keep.

Total Payment Amount: \$ _____

Payment Method:

E-transfer* (preferred) MC Visa

Cardholder Name: _____

Card No.: _____ Exp. Date: _____

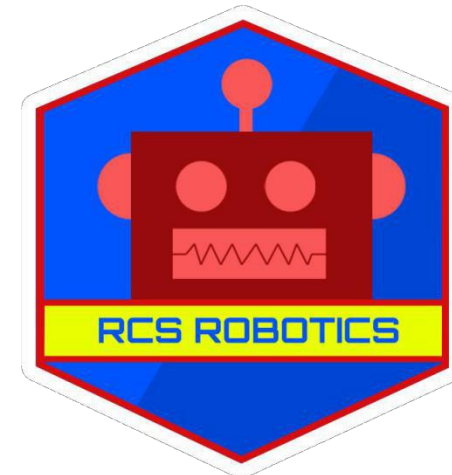
Your child's spot will be confirmed once payment is received. Registration is on a first-come, first-served basis.

*E-transfer payments can be made to receivables@myrcs.org – Include "Robotics Camp" and your child's name in the message field.

Parental Consent:

I absolve RCS of all responsibility with respect to any injury sustained during participation in the program and give RCS permission to obtain medical treatment for my child if required. I also understand that RCS retains the right to use, for publication and advertising purposes, photographs of my child taken at camp

Signature: _____ Date: _____



REGINA CHRISTIAN SCHOOL

ROBOT CAMP

2024



What Happens Each Camp Day?

Each year I redesign the camp to take the lessons from previous years and improve on them. This year each camp day is based around a programming concept, and the campers will do a variety of activities that helps them to learn that concept. This will be done through a starting activity and physical game. Then through some structured programming tutorials. Then later in the day through programming challenges that are tiered to meet different learning levels.

Using Movement to Learn

While this is a camp about programming, physical movement is still a really important way to regulate our energy levels, and to learn concepts with. We start each day with a physical game that uses the programming concept for the day. Then throughout the day we have both a morning, and afternoon break where we go outside and do both recess, and non-screen programming activities.

Problem Solving

What makes programming such a powerful thinking technique is that it encourages students to solve problems and challenges, and it teaches them techniques for how to do this in an effective manner. To facilitate this each concept that we are learning in a day will have tiered challenges. This will allow campers to work at a level that helps them to learn the material without it being too boring, or too frustrating.

The Camp Theme

This year we are introducing something new to the robot camp experience, and that is a camp theme. Camp this year will be based around solving puzzles and finding clues to help the campers gather the pieces to stop a fictional Mad Scientist from taking over the world. Our camp theme is "Code Heroes".

3D Designing:

In addition to programming the students will learn how to design 3D objects that can be 3D printed.

What Concepts do they learn?

There are many aspects to programming and each camp day is being broken into a computational thinking technique for the day, and a programming technique. Our computational thinking techniques are: Abstraction, Algorithm Design, Pattern Recognition, Decomposition, and Logic/Debugging. Our programming techniques are: Sequences, Conditionals, Loops, Functions, and Variables.

What do they get to take home?

Each student gets to keep their robot, if they did not already have one. In addition to this each will get a booklet that contains the information for all the resources that we used, as well as information about the computational thinking techniques, and the programming techniques that we learned. Students also will get to take home multiple 3D printed items. There will be one based on the camp theme this year, one that is their name tag, and one that something else designed by the student.