

# Sports Hall STEM Club

11/17/18

**Good morning students!**

**Today's themes are: The  
Robot's Remote Control and The  
Principles of a Remote Control**

*Read p.41 and p.65 out loud with a partner!*

# Questions

## Comic #1

- **What sensor is used to send information to the TV?**
- **How does the remote IR sensor work?**
- **Why can't a TV remote controller be used on a radio or air conditioner?**

## Comic #2

- **What is one way to stop the remote from working?**
- **What are the 3 different signals given off by the remote in the comic?**

# The Robot's Remote Control R/C

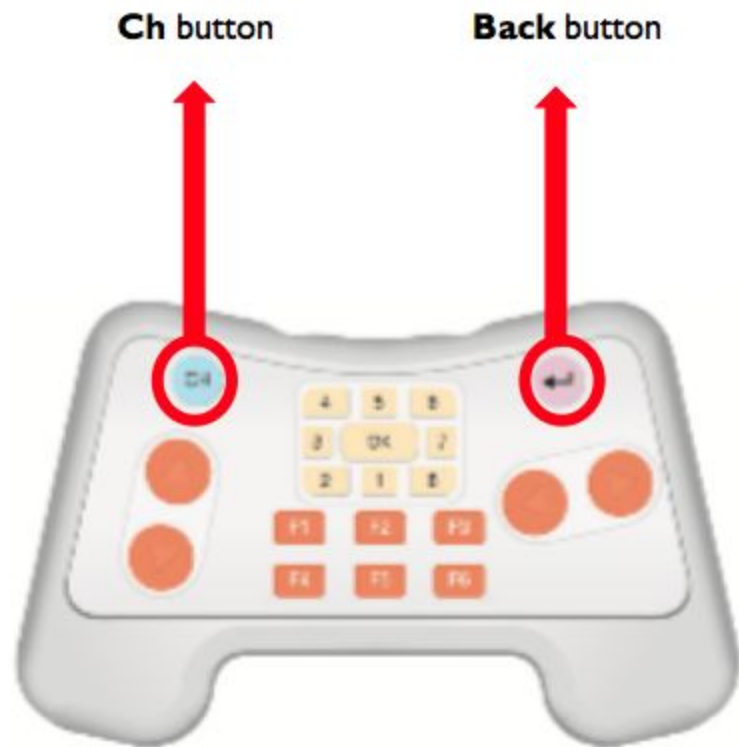
- Find it in your kit!
- Let's Find out how to change the R/C channel! **Everyone should be able to change the channel by the end of today!**



Remote Controller (1)

# SET REMOTE CONTROL ID

- Press **back**, then **ch** —then release **ch**
- now you are in **selection mode**
- press **back** to navigate the ID (1-8) options
- once you land on the desired ID, press **ch**
- your menu will \*blink\* 3 times to confirm selection
- press **back** to see what ID is now selected
- *Remember to set remote ID on the bot as well!*



Remote Controller (1)

# LET'S GET TO WORK!

## 3 Groups

- Scratch Programming Team
- Robotics Team
- Khan Academy Team



# Scratch Programming Team -- Create an animation that incorporates the concept of a remote control!

- Create a Scratch Animation that reflects real-world examples of a remote control! Mention what type of remote control it is, make sure you mention what signals it is sending. We should also see the object being controlled by the remote!
- You can:
  - Create a voice recording explaining the concept
  - Create a comic where your sprites are talking about remote controls
  - OR Create anything that incorporates what you learned today!
  - **USE YOUR CREATIVITY**
- Ask anyone on the STEM Team if you need help!

# Robotics Team

- Build the Duckling from the Blue book (p.19)
- Discuss how the remote will control its movement! Tell someone from the STEM team!





## Khan Academy

Begin Practicing Math Subject on the Khan Academy App -- Ask anyone on the STEM Team If you need help and let us know when you start a new lesson, and if you need any help.



Now it's time to swap teams everyone! Break down your robots and clear your Scratch programs!