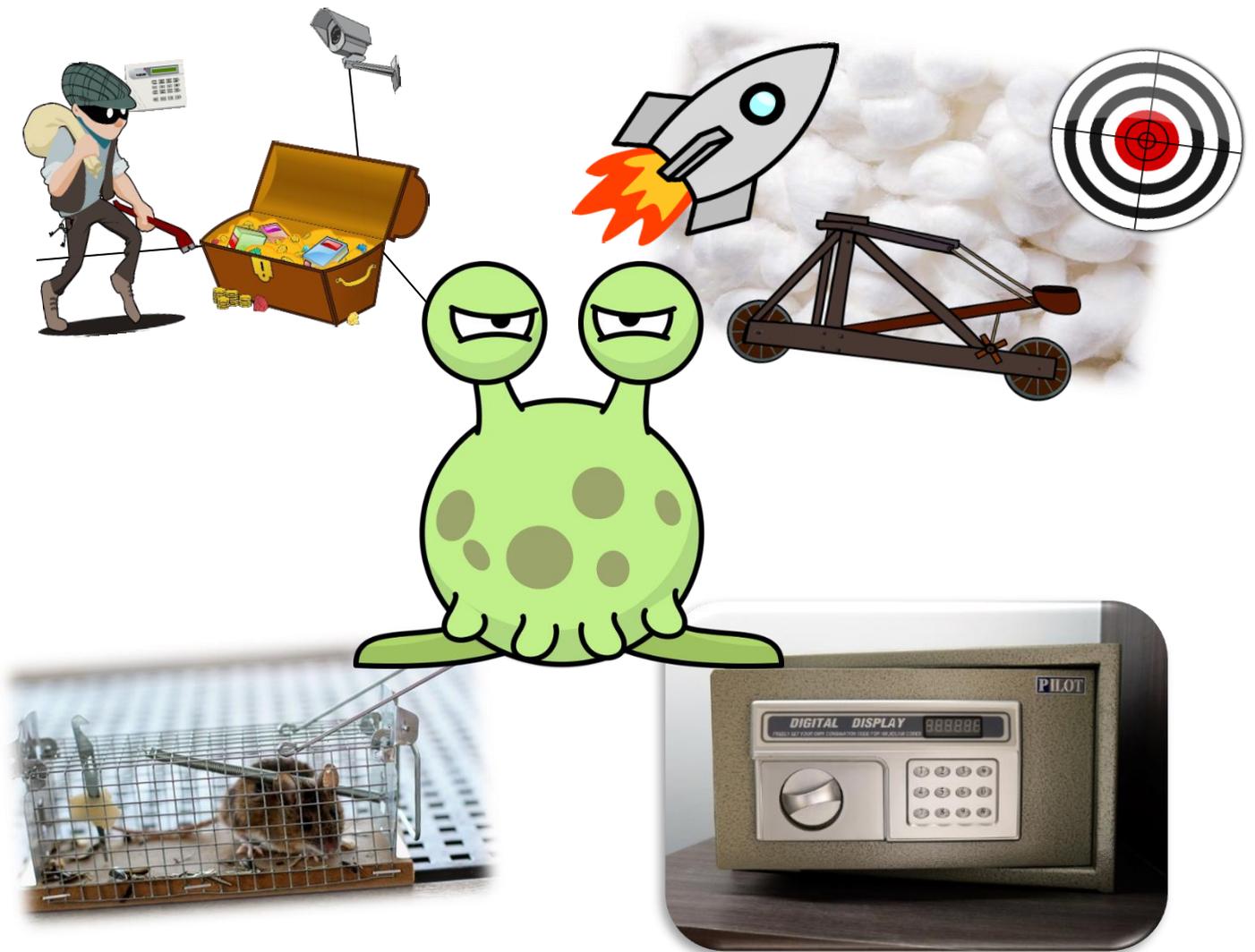


# EdChallenge!

## The EdCreate EdChallenge set



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# EdChallenge!

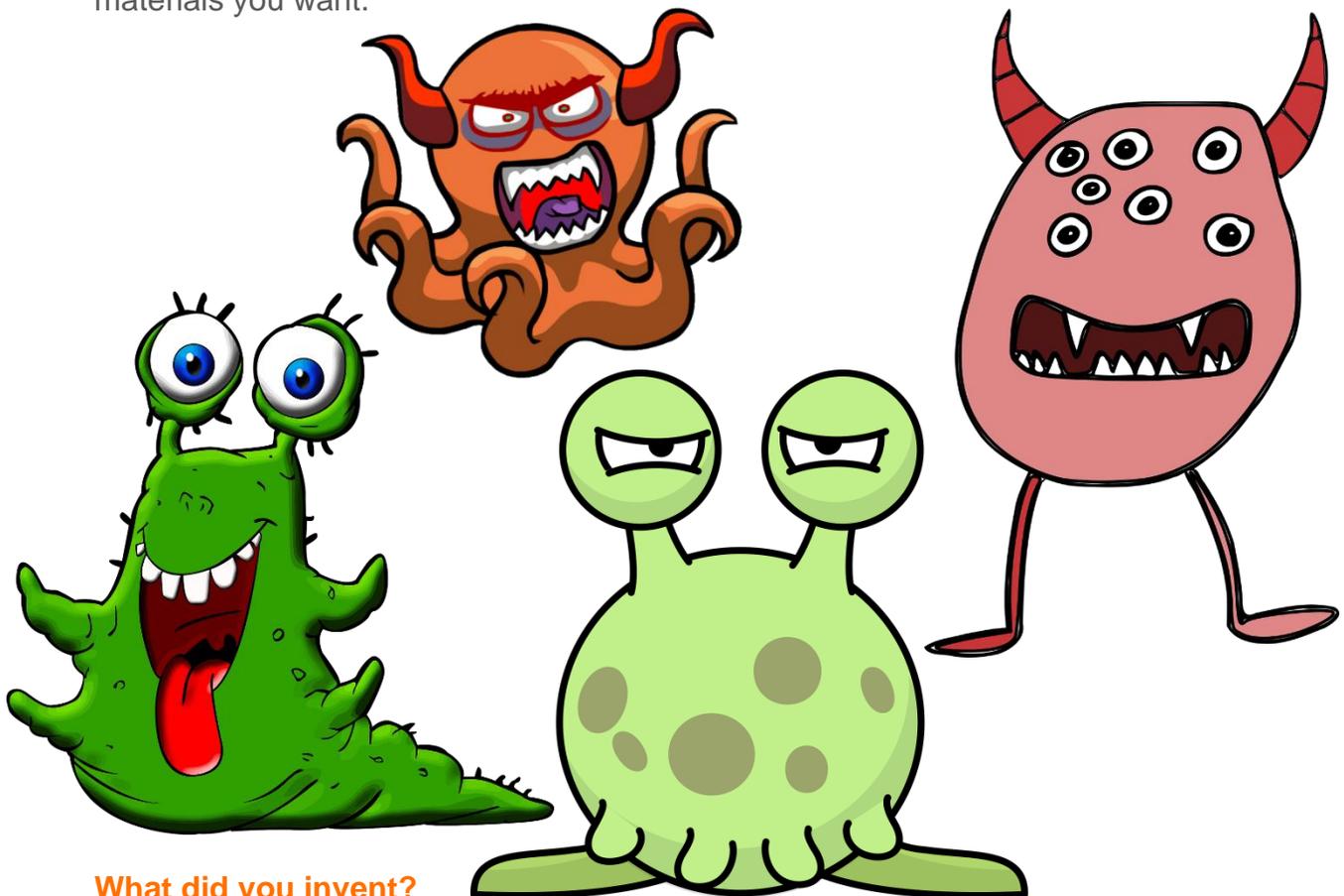
## Let's invent a monster

Does it live under the bed and eat dirty socks? Is it mean and scary or shy but nice? In this challenge, it's up to you!

To complete this monster challenge, you need to create a creature using your Edison robot which can:

- move using Edison's motors, and
- respond to its environment by using at least one of Edison's sensors.

You can build your monster using an EdCreate robot creator's kit and any other materials you want.



### What did you invent?

What does your finished monster look like? How does it work? Take a photo or draw a picture or diagram of your monster. Then write a description of your creation, including how it works and how you programmed it.

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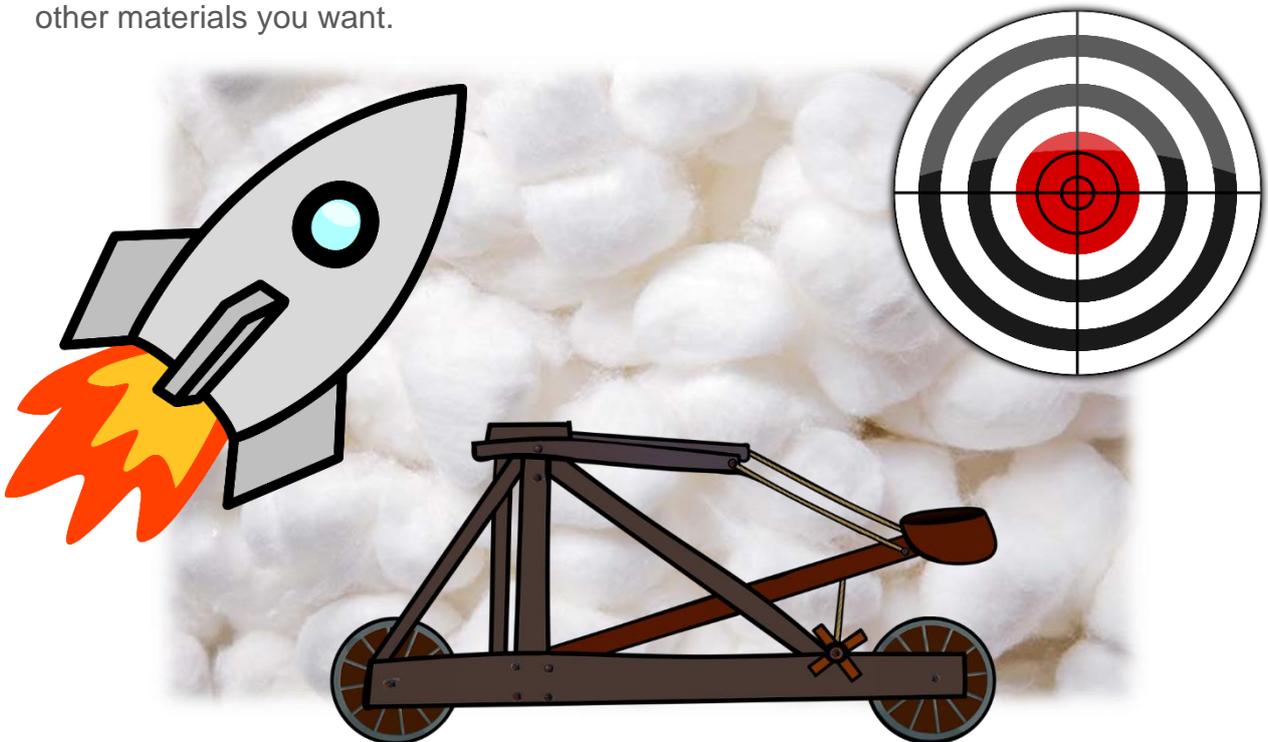
## Let's invent a cotton ball launcher

Grab a bag of cotton balls, then get ready, aim and FIRE! It's time to build a cotton ball launcher. Will your cotton balls shoot straight up like rockets? Will you be able to hit a bullseye? Or will your cotton balls fly down the hallway? The choice is up to you!

To complete this cotton ball launcher challenge, you need to build a device which can launch a cotton ball using your Edison robot. Your launcher must do one of three tasks:

- throw a cotton ball as high as possible, or
- throw a cotton ball as far as possible, or
- throw a cotton ball as accurately as possible.

You can build your cotton ball launcher using an EdCreate robot creator's kit and any other materials you want.



### What did you invent?

What does your finished cotton ball launcher look like? How does it work? Take a photo or draw a picture or diagram of your cotton ball launcher. Then write a description of your creation, including how it works and how you programmed it.

# EdChallenge!

## Let's invent a burglar alarm

You have been entrusted with a valuable treasure to protect. But there are sneaky thieves out to get it! Make a burglar alarm to keep the treasure safe and sound.

To complete this burglar alarm challenge, you need to build an alarm using your Edison robot. Your alarm must:

- use at least one of Edison's sensors to trigger the alarm, and
- do something to scare the intruder away.

You can build your burglar alarm using an EdCreate robot creator's kit and any other materials you want.



### What did you invent?

What does your finished burglar alarm look like? How does it work? Take a photo or draw a picture or diagram of your burglar alarm. Then write a description of your creation, including how it works and how you programmed it.

# EdChallenge!

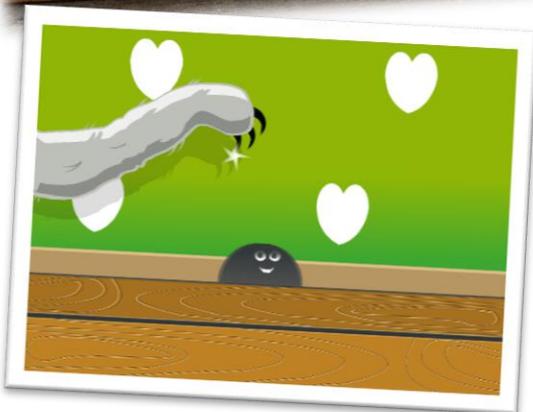
## Let's invent a mousetrap

Break out the cheese! Or do mice prefer peanut butter? Whatever you want to use as bait, it's time to get prepared to catch a mouse!

To complete this mousetrap challenge, you need to build a trap that can catch a mouse using your Edison robot. Your trap must:

- use at least one of Edison's sensors to trigger the trap, and
- alert you that the trap has been sprung.

You can build your mousetrap using an EdCreate robot creator's kit and any other materials you want.



### What did you invent?

What does your finished mousetrap look like? How does it work? Take a photo or draw a picture or diagram of your mousetrap. Then write a description of your creation, including how it works and how you programmed it.

# EdChallenge!

## Let's invent a combination safe

Where do you keep your most valuable possessions? Why not put your belongings in a combination safe with a robotic lock!

To complete this combination safe challenge, you need to build either a safe box with a lock or just a lock using your Edison robot. Your lock must:

- only open for the right sequence of round button and triangle button presses, or
- only open for the right sequence of TV or DVD remote control button presses.

You can build your combination safe using an EdCreate robot creator's kit and any other materials you want.



### What did you invent?

What does your finished combination safe look like? How does it work? Take a photo or draw a picture or diagram of your combination safe. Then write a description of your creation, including how it works and how you programmed it.