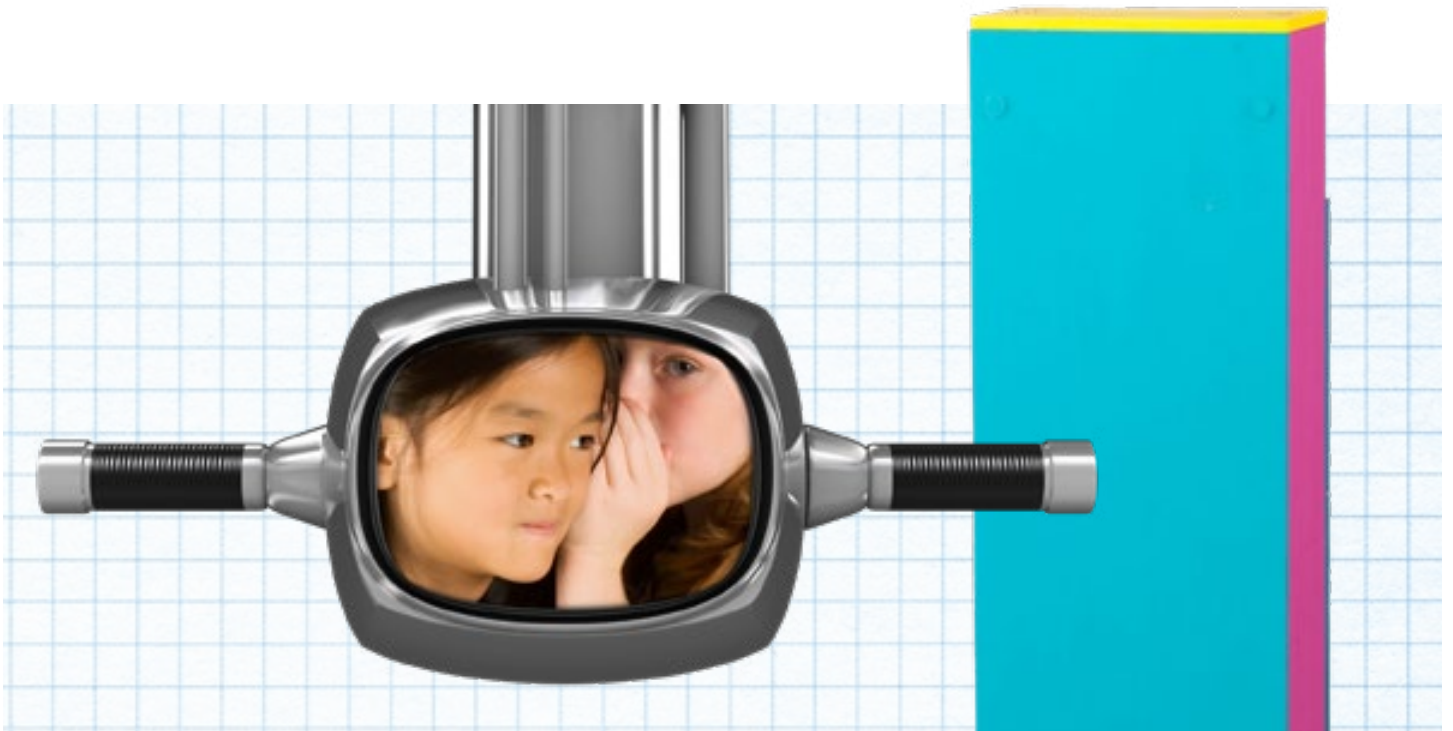


# WORKSHOP EXTENSION ACTIVITY

Built by The Home Depot Kids Workshop



## PERISCOPE

Ages 5-8 and 9-12

**MAKE. CREATE. EXPLORE.**

#KidsWorkshopExplore





What will you discover with your periscope?

**Being a spy is not an easy job.** Spies watch the movement or actions of others in secret. What do you think a spy has to do in order to be successful?



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When you are a spy, one of your most important jobs is to observe and collect information without drawing attention to yourself.

How would you keep from drawing attention to yourself?



Share your discovery! Use [#KidsWorkshopExplore](#) to post a picture of where your periscope works best.

# Spy Tools

Before you actually spy, let's investigate how the periscope works so you don't accidentally reveal yourself!

1. Take out your periscope and look into the viewfinder. What do you see?

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2. Flip the periscope so you're holding it another way. What do you see now?

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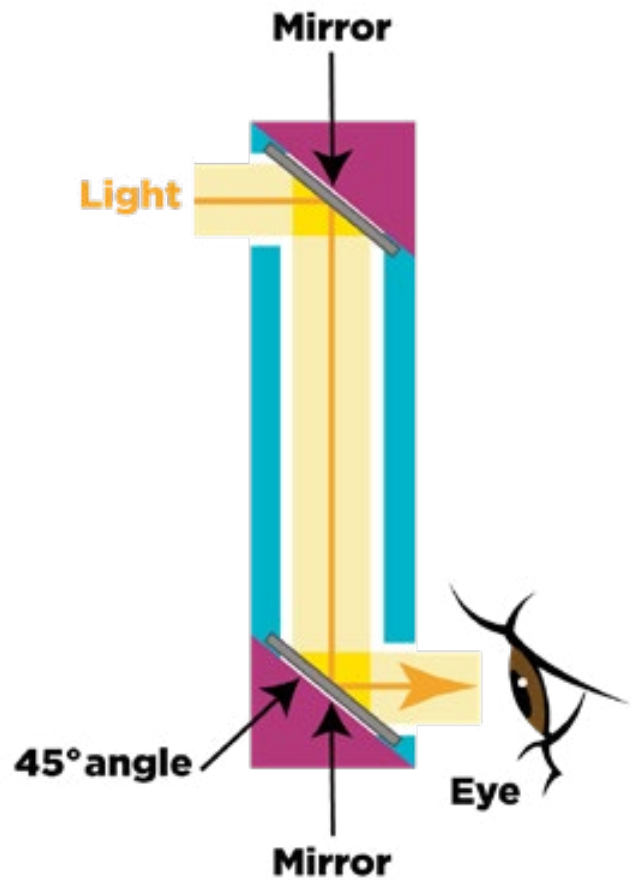
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3. Take a long look at how the periscope is constructed and think about what you've just seen. How do you think the periscope works?

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**Answer:** Normally, you can only see objects in your line of vision. A periscope makes it possible to extend how far you can see. With a periscope, for example, you can see around corners and over objects! It does this by using the Laws of Reflection. Light enters the periscope and is reflected from one mirror onto a second mirror. The image comes into your line of sight when you see the reflection on this second mirror. This allows you to spy in places where your eyes can't usually see!



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# Spy-in-Training

All good spies must undergo training before their first mission. Now that you have an idea of how the periscope works, it's time to find out where it works best.

## You'll need...

- Your periscope
- A pencil
- A Field Flex book

1. Where in your home could you use your periscope? If you have a yard or a place where you can play outside, think of places outdoors too. Make a list of these places below. Some ideas are provided to jumpstart your brainstorming!

- Around a corner
- Above a couch
- Above your kitchen table or counter
- Into a mirror
- From under your bed
- Outside your front door

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

2. Dress in your least suspicious outfit so you don't draw attention to yourself.



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3. Grab your periscope, Field Flex book, and pencil and stealthily test out the locations you listed. For each location, create an entry in your notebook that looks like this:

**Spy location:** \_\_\_\_\_

**Sketch of what I can see from the periscope:**

**Spy tips to remember:**  
*(For instance, is there a floor panel that creaks? Does the periscope work better over a certain side of the couch?)*

\_\_\_\_\_

\_\_\_\_\_

## Mission-Ready

Once your periscope is fully tested and your notebook contains the tips you need to succeed, you are ready to begin your first mission! If you're working with a spy partner, devise a plan and study your notebook before you head out. It may also be helpful to come up with a few secret code words that you can use while you're on your mission!



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