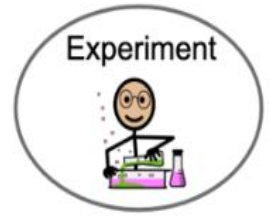




# experiment



NEED



## Magic Money



super strong magnet



one-dollar bill



five-dollar bill



### What We Know:

- A magnet will stick to some things.



### Step 1: Ask a Question

- Will a magnet stick to a one-dollar bill?
- Will a magnet stick to a five-dollar bill?



### Step 2: Make a Guess / Hypothesis

I think...



A magnet will stick to a one-dollar bill.



A magnet will not stick to a one-dollar bill.



A magnet will stick to a five-dollar bill.



A magnet will not stick to a five-dollar bill.





## Step 3: Do an Experiment

1. Fold one-dollar bill in half.  
Put on table.



2. Touch magnet to one corner of one-dollar bill.



3. Pull magnet up and down slowly.



4. Record observation.



5. Repeat steps 1-4 with five-dollar bill.





## Step 4: Organize Data

When I touched the magnet to the one-dollar bill, it



stuck.



did not stick.



When I touched the magnet to the five-dollar bill, it



stuck.



did not stick.





## Step 5: Find the Conclusion

Does a magnet stick to a one-dollar bill?



yes



no



Was your guess correct?



yes



no



Does a magnet stick to a five-dollar bill?



yes



no



Was your guess correct?



yes



no





## Step 5: Find the Conclusion

---

### Explanation:

- Magnets stick to metal. Magnets stick to the one-dollar and five-dollar bill because they contain some metal. The United States government prints money with a special ink that contains iron. This is done to stop people from making and using counterfeit or fake money. Many machines, such as vending machines, ATMs and money counters are able to detect the iron in the bills. These machines use the iron to determine which dollar amount each bill is worth.



### Extension:

- Try this experiment with a ten-dollar and twenty-dollar bill. Does the magnet stick?

