Heads or Tails?

Part 1: Experiment

- Ask your partner to place a penny heads up or heads down on your fingertip.
- Without looking, can you tell which side of the penny you are touching?
- Now let your partner move the penny across your fingertip. Does this make a difference?
- What happens when you move the penny across areas of your hand and arm?

Questions

- When was it the easiest to identify heads and tails on the penny?
- There is one nickel mixed with the other coins in the pouch. Reach into the pouch without looking at the coins. How did you determine which one was the nickel?
- What does this experiment tell you about how your touch receptors work?

Part 2: Experiment

With your groupmates, brainstorm a *testable* scientific question based on the information you have so far. Write out how you would test this question. Don't forget to consider scientific controls!

Want more information? Here are some keyword suggestions you can use to find more information on this subject, <u>use one of them when describing your test:</u> Primary sensory cortex, cortical homunculus, somatosensory system, brain topographic map