

# investigation 4 - heat transfer



"bob" notebook setup pp 140-147

conduction  
radiation

writing at top of page

140 Heat-Reading Investigation 7

Investigation 4 Heat Transfer 141

Problem - How does heat move (conduction and radiation)

hypothesis

materials

equipment

compare conduction

specific to conduction

radiation conduction

why does than in g

glossary words

- radiation
- conduction
- conductor
- insulator
- thermal energy
- specific heat
- energy



add these words to your glossary

written page

142 Heat Transfer Investigation 4 - Conduction - data 143

procedure

conduction

radiation

results - data

investigation 4 heat transfer

start

test tube in water

outside water

Steel rod

thermometer

start

color of strip temp.

Al Fe

cup

hot H<sub>2</sub>O

cup

hot H<sub>2</sub>O

writing

144 radiation - data - Investigation 4 145

results - data

investigation 4 heat transfer

make a line graph showing your collected data

color key

sand

soil

water

air

radiation

USE CENTER

elapsed time in minutes

writing

146 Investigation 4 - heat transfer 147

conduction demonstration

investigation 4 - heat transfer

describe what happened in this demonstration

flame

which card fell first?

Why?

card

metal rod

clamp

ringstand

conclusion -

variables -

explain how heat is transferred

Make sure pages 140-147 of "bob" are set up and ready to go for investigation 4 of weather watch