

# Iron filings, sand and salt

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This task is about planning and carrying out an investigation.

## Equipment list

- mixture of equal parts of iron filings, sand, and salt
- water
- funnel
- filter paper
- 2 glass jars or ice cream containers
- a magnet

a) Using some or all of the equipment above, separate the iron filings from the rest of the sand and salt mixture. Write down in the space below how you did this.

**How I did this:**

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b) Now use some or all of the equipment to separate the sand from the salt. Write down in the space below how you did this. How I did this:

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In science, properties of a material describe how it looks and how it behaves.

c) Explain which properties of the iron filings, sand, and salt you used to separate them from each other. Fill in the table below with your answers.

Material	Feature that allowed each material to be separated
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Material	Feature that allowed each material to be separated
Iron Filings	
Sand	
Salt	

### Student Self-Assessment Sheet

Give yourself a rating (see below) for each of the questions. Write some reasons why you gave yourself this rating.

The ratings are:

1 = Yes (I successfully did this.)

2 = I tried to do this and did a pretty good job, but I think I could do better.

3 = No (I did not do this successfully, I need to do more work.)

<b>My name:</b>		<b>Date:</b>	
<b>Task/Activity:</b>			
<b>How did I do?</b>		<b>Assessment Rating</b>	
		<b>Self</b>	<b>Teacher</b>
Q1: Did I read and follow the instructions?			
Reasons for my rating:		<b>Rating</b>	<b>Rating</b>
Q2: Did I write down what I did and saw clearly?			
Reasons for my rating:		<b>Rating</b>	<b>Rating</b>
Q3: Did I explain the feature that allowed each material to be separated?			
Reasons for my rating:		<b>Rating</b>	<b>Rating</b>
Q4: Did I clean up the equipment and materials I used?			
Reasons for my rating:		<b>Rating</b>	<b>Rating</b>
Q5: Did I understand what I did?			
Reasons for my rating:		<b>Rating</b>	<b>Rating</b>

Now give your Student Self-Assessment Sheet to your teacher to talk about how you rated yourself.

Do they agree with your rating?