

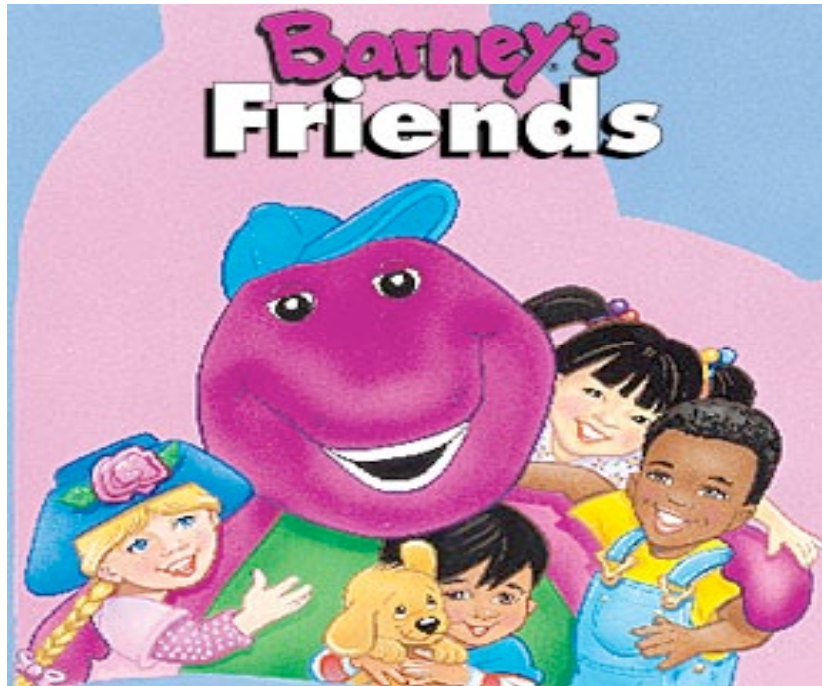
## **Finding Barney: Scene 1**

PBS is hosting a contest due to the overwhelming request from kindergarteners asking where Barney came from. Based on recent archeological dig findings of human bones close to dinosaur fossils, PBS wants middle school students to develop a puppet show explaining the scientific significance and possible relationship between humans and dinosaurs and include an excavation demonstration.

The resident expert will be here to discuss her breakthrough discovery as well as provide written transcripts to assist with your research.

# Finding Barney Contest

Create a show a Kindergartener  
will love



*Contestants must create an original cast and puppet show based on the archeological presentation. Information in the puppet show should be appropriate to a five-six year old child. The winning presentation will be performed at a local kindergarten class.*

**Box chart**

**Facts**  
**I read that....**

**Questions/Learning Issues**  
**I wonder/want to ask or I need to look up/learn more ....**

**Hypothesis**  
**I think...if (FACT), then....**

**Action plan**  
**How will I get my information**

## Self/Peer Evaluation

### Individual

Name \_\_\_\_\_

Period \_\_\_\_\_

Scale 1-10 (1 = low, 10 = high)

1. I participated in the group \_\_\_\_\_
2. I completed my portion of the assignment \_\_\_\_\_
3. I listened to my group members suggestions \_\_\_\_\_
4. I learned information about fossils \_\_\_\_\_

### Group

Answer questions 1-3 for each of your group members

Scale 1-10 (1 = low, 10 = high)

Name	Score Q1 – Participation	Score Q2 – Complete assignment	Score Q3 – Listen to suggestions

How would you rate this activity overall \_\_\_\_\_

Would you like to do another activity like this again \_\_\_\_\_



## Paleontology Dig: How scientists uncover fossils

### Jobs

Recorder/Supervisor  
Artist/photographer

Sifter  
Digger/Brusher

### Tools

Buckets  
Small Brushes  
String  
Tweezers  
Small plastic bags

Shovel/Spoon  
Small Screens  
Tape Measure  
Pencil and Paper  
Rake/Fork

### **Some tips and procedures to help you find fossils:**

- ❖ Excavation destroys the landscape so when conducting a “dig” you must be VERY CAREFUL about how you choose the site and the methods you use to dig.
- ❖ Create a grid across the site using string. When excavating each square, pictures and drawings should be used to document what is found. Using a grid system creates a map of the site.
- ❖ Digging can damage artifacts. Instead, use the brushes to gently move away the dirt. Shovels can be used to move dirt from the site to the sifter (see next tip).
- ❖ Some artifacts are too small to be found easily in the dirt. The dirt should be passed through a screen to make sure small objects are not missed and discarded. Using the Shovel, dirt can be moved from the site to a bucket. Next, you can use the screen to sift through the dirt by shaking the screen back and forth.
- ❖ It is common to take samples of the dirt to analyze later for age and soil composition.
- ❖ Record keeping is important. Notes should be taken the entire time a site is excavated and pictures or drawings of each finding should be made. Each artifact found should be labeled and numbered.

### Final Assessment Rubric

Categories	Score	1	2	3
<b>Group participation</b>		Self/peer and facilitator evaluation with average score of 1-3	Self/peer and facilitator evaluation with average score of 4-6	Self/peer and facilitator evaluation with average score of 7-10
<b>Box chart</b>		1 section complete with 1-2 points per section	2-3 sections complete with 2-3 points per section	4 sections complete with 4-5 points per section
<b>Product</b>		Puppet show incorporates little or none of the researched information. Inaccurate and language is not appropriate to their audience	Puppet show incorporates some of the researched information accurately and in language somewhat appropriate to their audience	Puppet show incorporates all of the researched information accurately and in language appropriate to their audience
<b>Reference selection</b>		Few references are properly cited & web source used has no completed evaluation forms	Some references are properly cited & web source used has a completed evaluation form for at least 3	All references are properly cited & each web source used has a completed evaluation form
<b>Presentation performance</b>		Not entertaining, poor voice projection and no eye contact	Somewhat entertaining, good voice projection and some eye contact	Entertaining, excellent voice projection and eye contact